SAMSUNG

THREE-CD CHANGER
MINI-COMPACT SYSTEM
DVD / VIDEO-CD / CD
MAX-DN85/DN87

Instruction Manual

Safety Warnings

GB

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTER LOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Contents

Thank you for buying this SAMSUNG mini-compact system.

Please take time to read these instructions. They will allow you to operate your system with ease and take full advantage of its features.

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Symbols

Press

Push

Important

Note

Front Panel View

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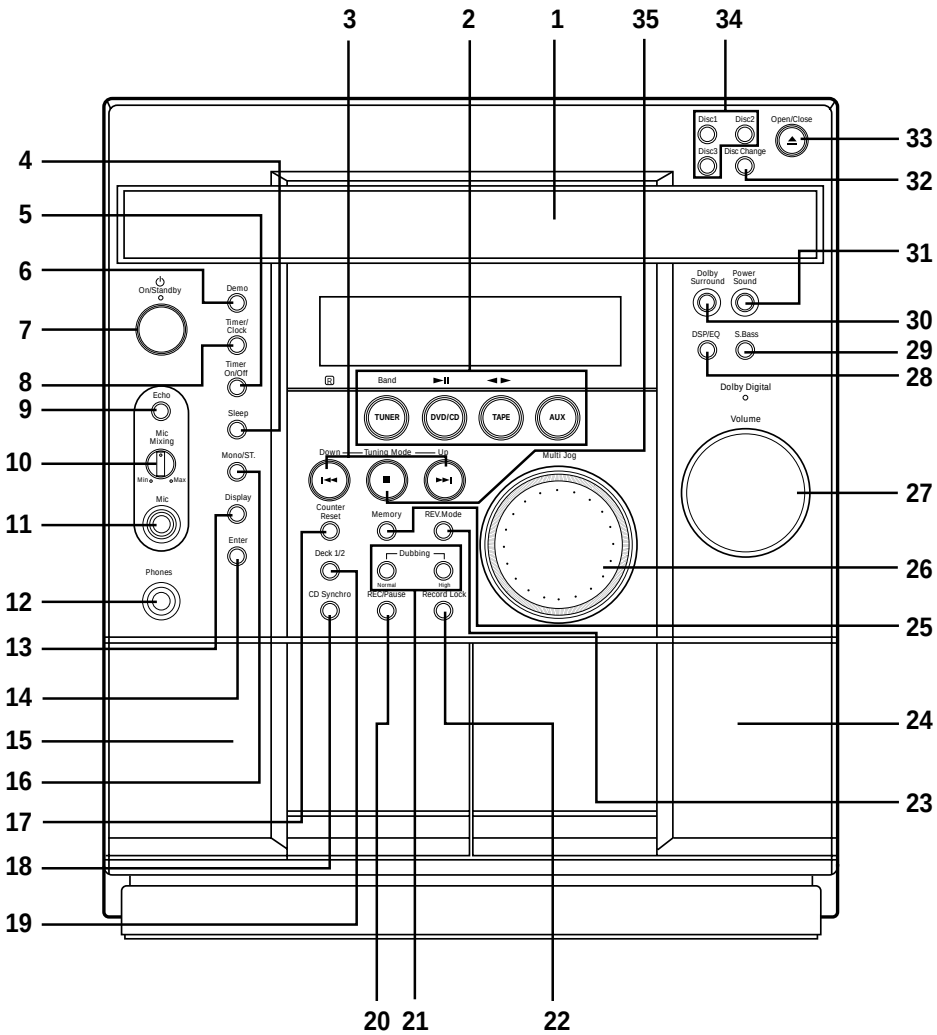

1. **Compact Disc Compartment**
2. **Function Selection buttons**
3. **CD Track or radio station search (Down/Up)**
4. **Sleep**
5. **Timer On/Off**
6. **Demo**
7. **On/Standby**
8. **Timer/Clock**
9. **Echo**
10. **Mic Mixing**
11. **Mic**
12. **Headphone Jack Connector**
13. **Display**
14. **Enter**
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17. **Counter Reset**
18. **CD Synchro**
19. **Deck 1/2**
20. **Rec/Pause**
21. **TAPE Normal / Hi-Speed Recording**
22. **Record Lock**
23. **Rev. Mode**
24. **Cassette Deck 2**
25. **Memory**
26. **Multi Jog**
27. **Volume Control**
28. **DSP/EQ**
29. **S.Bass**
30. **Dolby Surround**
31. **Power Sound**
32. **Disc Change**
33. **Open/Close**
34. **Disc Selection buttons**
35. **Tuning Mode or Stop button**

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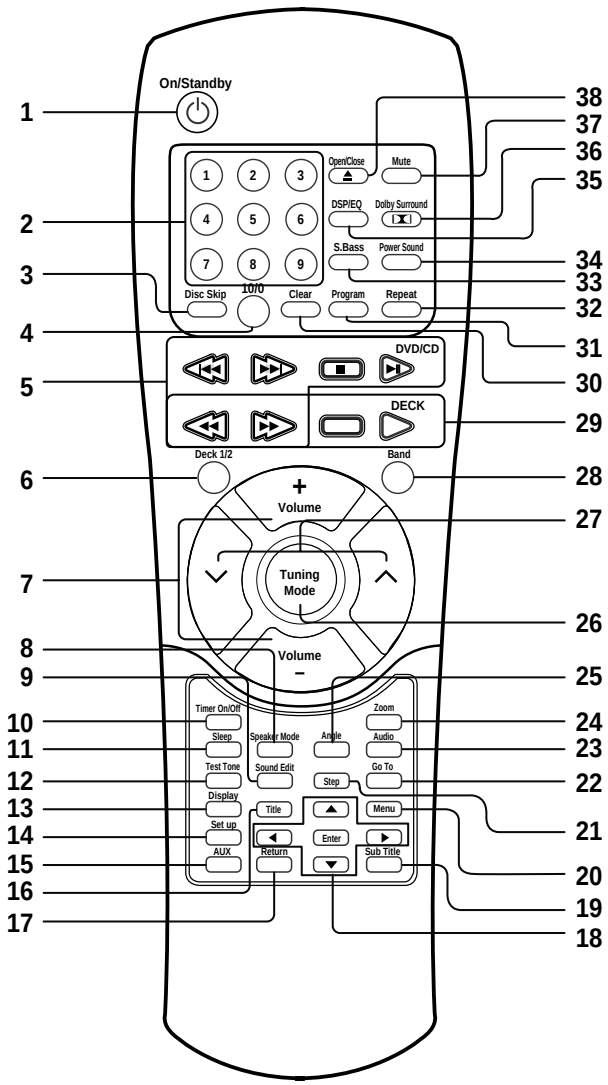

1. On/Standby
2. Numeric Buttons
3. Disc Number Skip
4. Two-Digit Track, Selection/+10 (Tuner)
5. DVD/CD Function Selection Buttons
6. Deck 1/2
7. Volume
8. Speaker Mode
9. Sound Edit
10. Timer On/Off
11. Sleep
12. Test Tone
13. DVD/CD Display
14. Setup
15. AUX
16. Title
17. Return
18. Enter (Up/Down, Left/Right)
19. Sub Title
20. Menu
21. Step
22. Go To
23. Audio
24. Zoom
25. Angle
26. Tuning Mode
27. Radio Station Search
28. Radio selection
29. Cassette Function Selection buttons
30. Clear
31. Program
32. Repeat
33. S. Bass
34. Power Sound
35. DSP/EQ
36. Dolby Surround
37. Sound Cut-Off Selection
38. Compact Disc Compartment Open/Close

Rear Panel View

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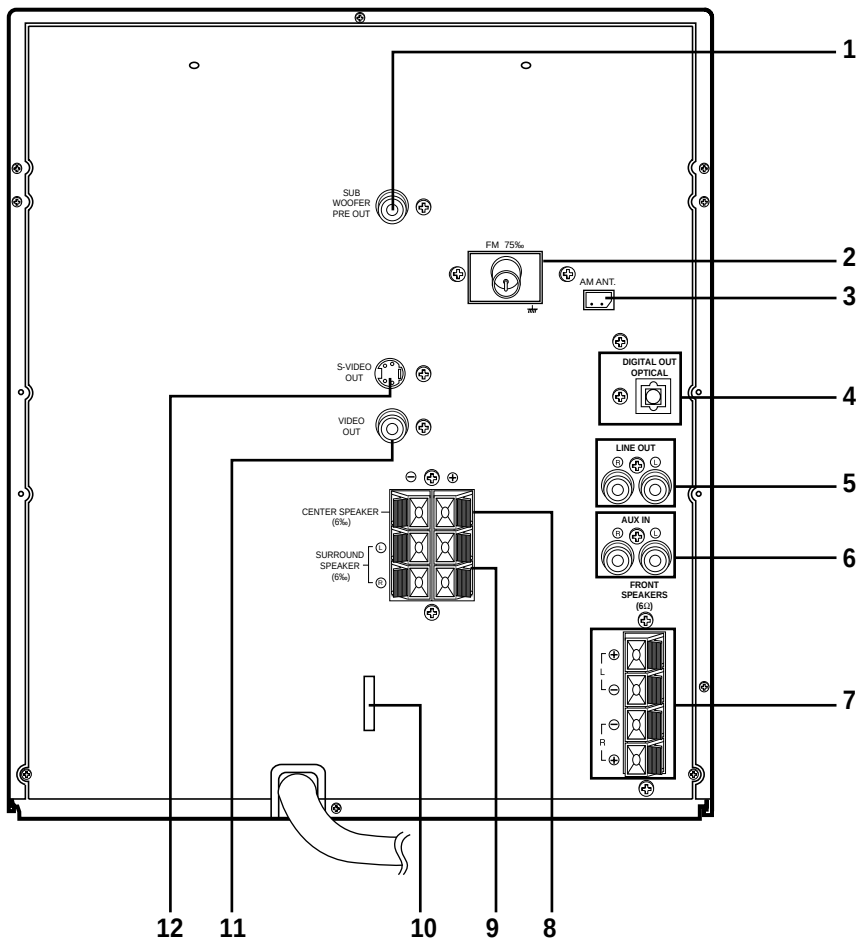
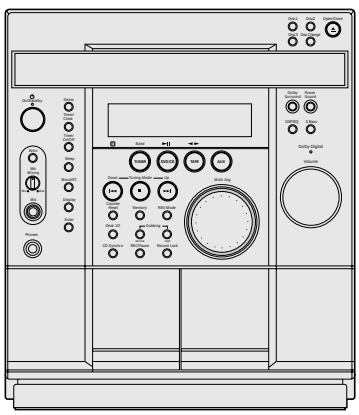


1. SUB WOOFER PRE OUT
2. FM AERIAL CONNECTOR TERMINAL
3. AM AERIAL CONNECTOR TERMINAL
4. DVD/CD DIGITAL OUT JACK
5. LINE OUT
6. AUX INPUT
7. LOUDSPEAKER CONNECTOR TERMINALS
8. CENTER SPEAKER
9. SURROUND SPEAKERS
10. VOLTAGE SELECTER
11. VIDEO OUT
12. S-VIDEO OUT

Where to Install Your Mini-Compact System

To take full advantage of your new mini-compact system, follow these installation instructions before connecting the unit.

- Install the system on a flat, stable surface.
- Never place this unit on carpeting.
- Never place this unit in an outdoor area.
- Maintain an open space of approximately 6 inches (15 cm) on the sides and rear of the system, for ventilation purposes.
- Make sure that you have enough room to open the compact disc compartment easily.
- Place the loudspeakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the loudspeakers towards the listening area.
- For optimum performance, make sure that both speakers are placed at an equal distance above the floor.



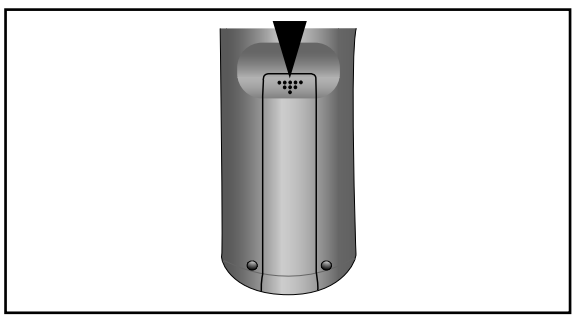
Inserting Remote Control Batteries

Insert or replace remote control batteries when you:

- Purchase the mini-compact system
- Find that the remote control is no longer operating correctly

☛ When replacing the batteries, use a new set of batteries and never mix alkaline and manganese batteries.

1. Place your thumb on the position marked ▼ on the battery compartment cover (rear of the remote control) and push the cover in the direction of the arrow.
2. Insert two AAA, LR03 or equivalent batteries, taking care to respect the polarities:
   - + on the battery against + in the battery compartment.
   - – on the battery against – in the battery compartment.
3. Replace the cover by sliding it back until it clicks into position.

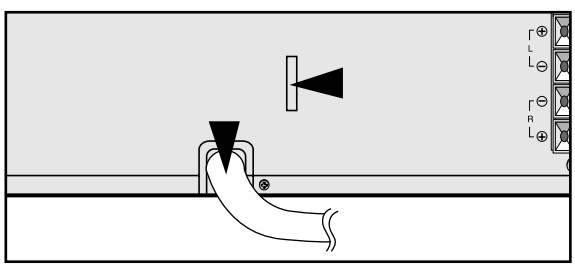


Connecting your System to the Power Supply

The main lead must be plugged into an appropriate socket.

☛ Before plugging your system into a main socket, you must check the voltage setting (OPTIONAL). If the voltage of the socket does not correspond to the setting on the rear of the unit, you may seriously damage your system.

1. Check the position of the voltage selector on the rear of the system (OPTIONAL).
2. Plug the main lead (marked **AC Cord** on the rear of the system) into an appropriate socket.
3. Press the **On/Standby** button to switch your mini-compact system on.

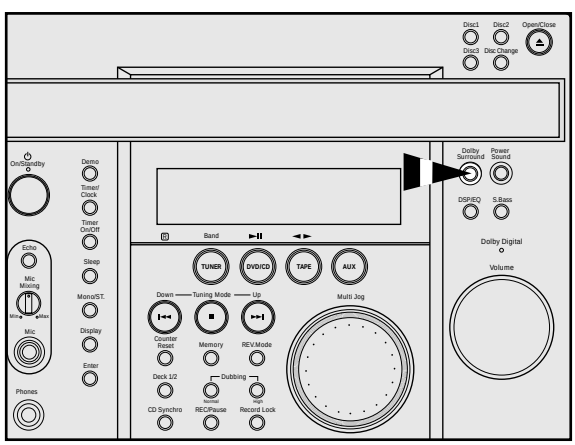


Video Output Selection

- Press the **Dolby Surround** button in POWER OFF, then it is converted to " NTSC → PAL " and select the TYPE you want.

Example : Select PAL, if TV is for PAL.

➢ When disk is set to NTSC in PAL, it doesn't operate.



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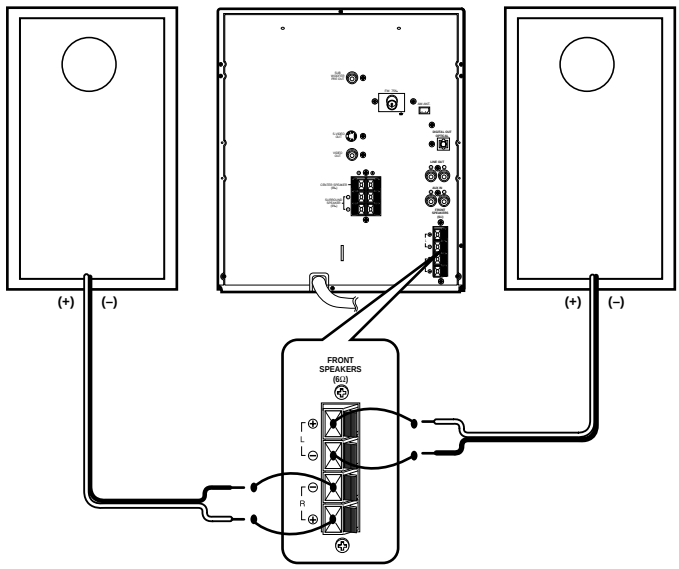
Connecting the Loudspeakers



The loudspeaker connector terminals are located on the rear of the system.

There are four terminals on the system:

- Two for the left speaker (marked L)
- Two for the right speaker (marked R)

To achieve the correct sound quality, connect the:

- Red wire to the + terminals
- Black wire to the – terminals

1 To connect a wire to a terminal, push the tab as far as it will go:
   - To the right on the system

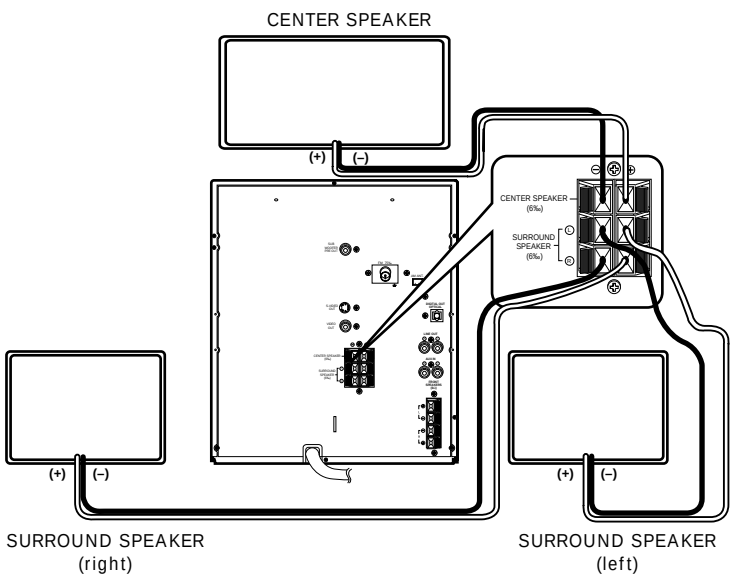
2 Insert the wire, up to the plastic sheathing, in the hole.

3 Push the tab back:
   - To the left on the system, until it clicks into place
   - To the top on the loudspeaker

   Result: The wire is pinched and held firmly in place.

4 Repeat the operation for each wire.

Connecting the Center Speaker/ Surround Speaker



Connect the CENTER SPEAKER.

- Connect the center speaker cord to the CENTER SPEAKER terminal.

Connect the SURROUND SPEAKERS.

- There is no difference between the surround speakers. Both speakers can be connected as R (right) or L (left).
  Connect the surround speaker cords to the SURROUND SPEAKERS terminals.

Connection of the subwoofer (optional)

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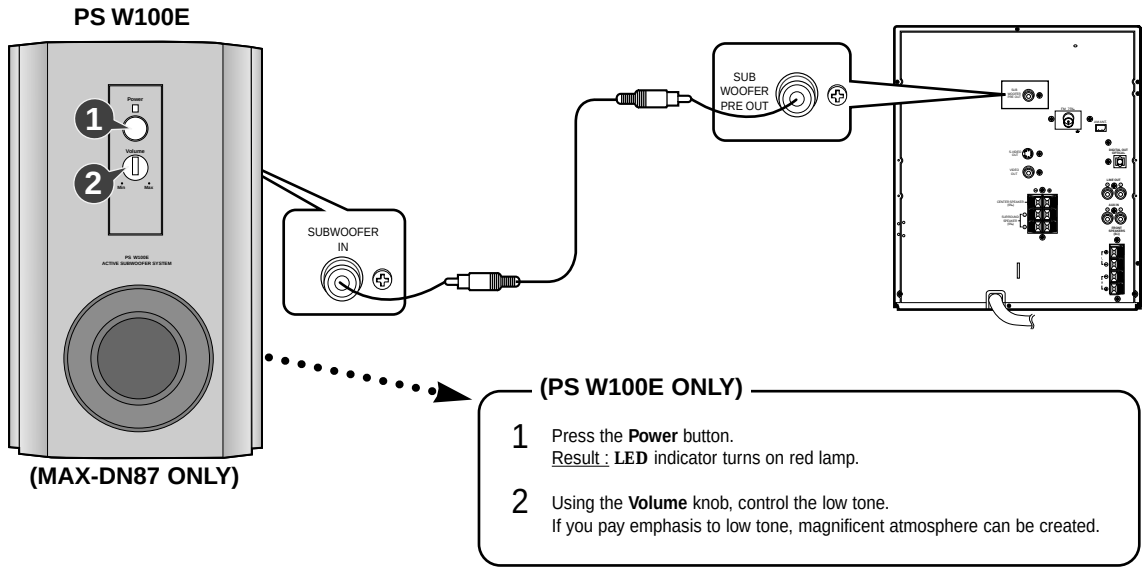
The subwoofer generates low-pitched tones.
(Ex. Explosion, the sound of spacecraft flying, the sound of pondering, etc.)

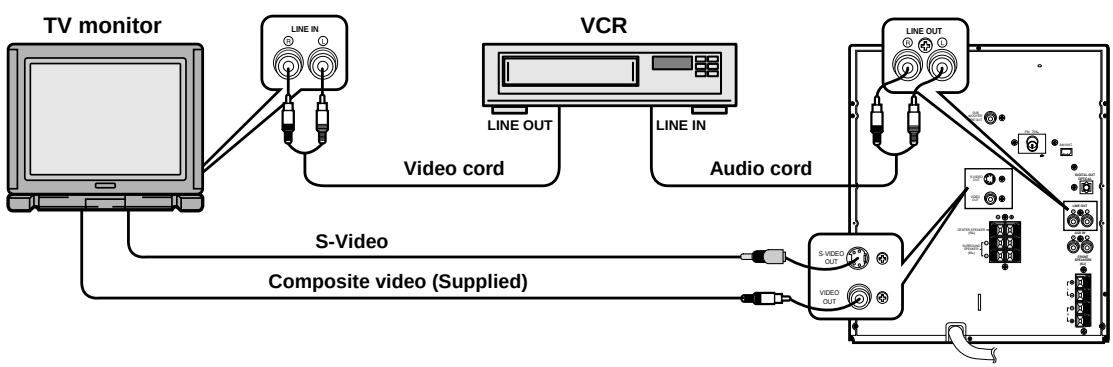
Connect the subwoofer

- Connect the subwoofer cord to the SUBWOOFER IN and SUB WOOFER PRE OUT terminal.
- Plug the AC Cord on the rear of the SUBWOOFER into an appropriate socket.


PS W100E
1
2
SUBWOOFER IN
SUB WOOFER PRE OUT
(MAX-DN87 ONLY)
(PS W100E ONLY)
1 Press the **Power** button.
Result : LED indicator turns on red lamp.
2 Using the **Volume** knob, control the low tone.
If you pay emphasis to low tone, magnificent atmosphere can be created.

Connection of the TV monitor (optional) and VCR (optional)

The following show examples of connections commonly used to connect the DVD player with a External Source.
(Example : TV, VCR, DAT CD-RW, etc)



➢ • When S-VIDEO is connected, S-VIDEO has priority.

Connection of the MD recorder (optional)

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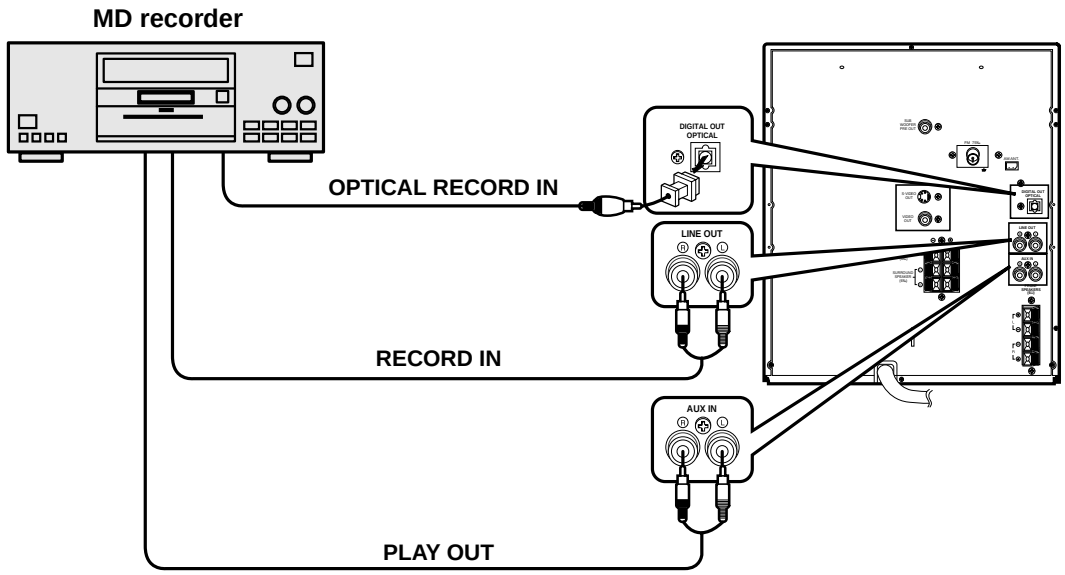

➢ Refer to page 32 to give a full detail of the peripheral connection methods.

DVD/CD Digital Out Jack

This unit can output DVD/CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment. (DAT deck, MD recorder, etc.).
Remove the dust cap (1) from the DVD/CD DIGITAL OUT jack. Then, connect an optical cable plug to the DVD/CD DIGITAL OUT jack.

When the DVD/CD DIGITAL OUT jack is not being used
Attach the supplied dust cap.

Connecting the AM (MW) Aerial

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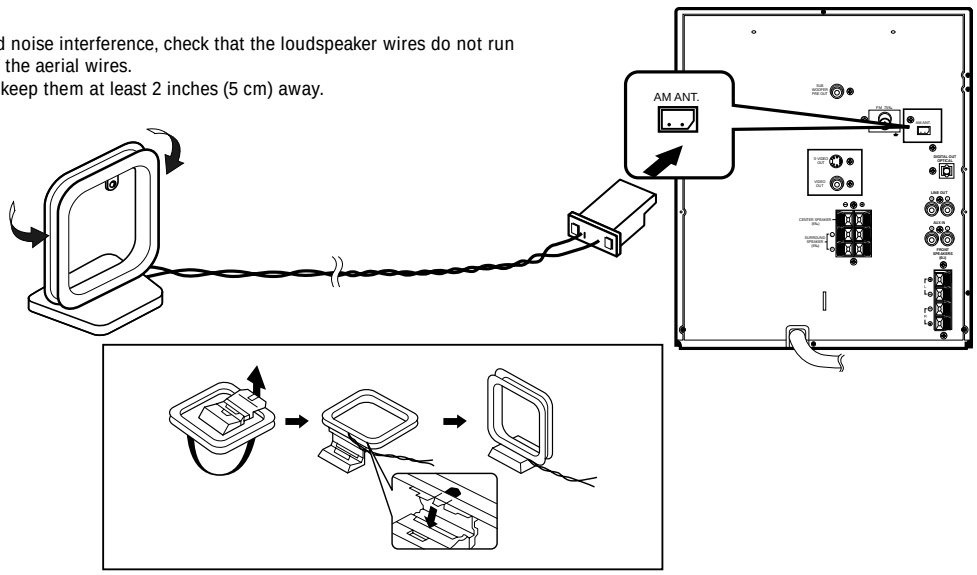
The AM aerial (for long and medium waves) can be:

- Placed on a stable surface
- Fixed to the wall (you must first remove the base)

The **AM** aerial connector terminals are located on the rear of the system and are marked **AM** .

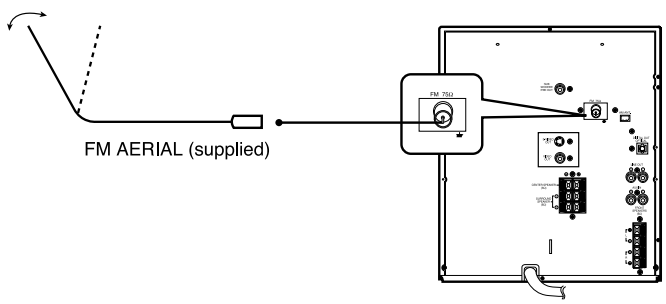
☛ To avoid noise interference, check that the loudspeaker wires do not run close to the aerial wires.
Always keep them at least 2 inches (5 cm) away.

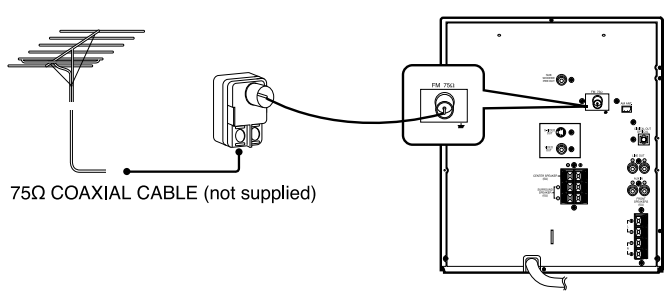


Connecting the FM Aerial

How to connect a COAXIAL TYPE aerial.

- Connect a 75Ω antenna to the **FM** antenna terminal.
- Plug the connector on the **FM** aerial supplied into the coaxial socket (75Ω) marked **FM** on the rear of the system.
- Follow the instructions given on Page 24 to tune into a radio station, and determine the best position for the aerial.
- If reception is poor, you may need to install an outdoor aerial.
  To do so, connect an outdoor **FM** aerial to the **FM** socket on the rear of the system using a 75Ω coaxial cable (not supplied).





Viewing the Various Functions on Your System

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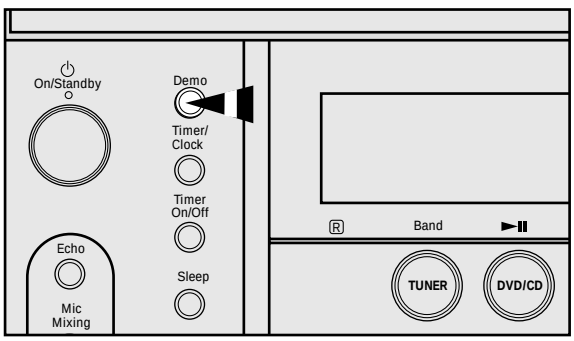
You can view the various functions available on your system.

1 Press the **Demo** button.
Result: The various functions available are listed in turn on the display.

➢ All these functions are described in detail in this booklet. For instructions on how to use them, refer to the appropriate sections.

2 To cancel this function, press **Demo** again.



➢ If the temperature of the set is too higher, the Volume will be adjust till VOL. 20 automatically.

Setting the Clock

Your system is equipped with a clock which allows you to turn your system on and off automatically. You should set the clock:

- When you first purchase the mini-compact system
- After a power failure
- After unplugging the unit

☛
- Remember to reset the clock when the time changes from regular to daylight savings and vice verse.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **On/Standby**.

2 Press **Timer/Clock** twice.
Result: **CLOCK** is displayed.

3 Press **Enter**.
Result: The hour flashes.

4

To...	Turn the Multi Jog knob to the...
Increase the hours	Right
Decrease the hours	Left

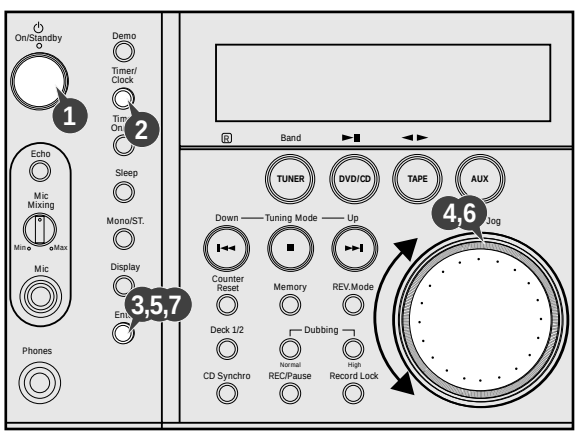
5 When the correct hour is displayed, press **Enter**.
Result: The minutes flash.

6

To...	Turn the Multi Jog knob to the...
Increase the minutes	Right
Decrease the minutes	Left

7 When the correct time is displayed, press **Enter**.
Result: The clock starts and is displayed, even when the system is in standby mode.

➢ You can display the time, even when you are using another function, by pressing Timer/Clock once.



Loading and Changing Compact Discs

The CD disc changer can contain up to three 12 cm or 8 cm compact discs without using an adapter.

☛ Never force the compact disc carrousel when opening and closing the compartment.

Never press down or place objects on the carrousel.

➢ Always treat your compact discs with care; refer, if necessary, to the section entitled "**Precautions When Using Compact Discs**" on page 33.

1 Switch the system on by pressing **On/Standby**.

2 Press the **Open/Close(** ▲ **)** button on the front panel.
Result: The compartment opens.

3 Place one or two discs in the front slots of the carrousel, with the label on the discs facing upwards.
☛ Check that the compact disc has been correctly inserted in the holder before closing the compartment.

4 If you wish to load a third compact disc, press the **Disc Change** button on the front panel (or **Disc Skip** on the remote control).
Result: The carrousel rotates by 120°.

5 Close the compartment by pressing the **Open/Close(** ▲ **)** button again.
➢ If you wish to start playing a disc directly, you can also proceed as follows.

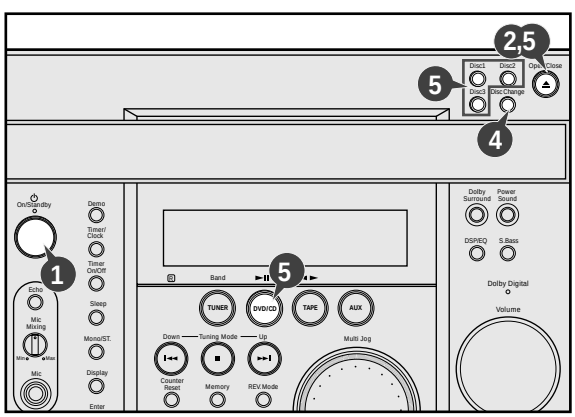
To play...	Press...
Disc 1	DVD/CD (▶II) or Disc 1
Disc 2	Disc 2
Disc 3	Disc 3

Result: The compartment closes automatically and the disc selected starts playing.

6 To change or unload the compact disc changer, repeat Steps **2** to **5**.

☛ Keep the compartment closed whenever you are not using it, to prevent dust from entering.

➢ You can load or unload compact discs when the radio, tape or auxiliary source function is selected.



Playing a Disc

Playback

1 Press the **Open/Close(** ▲ **)** button.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the **Play/Pause(** ▶II **)** button or **Open/Close(** ▲ **)** button to close the disc tray.

Pausing Playback

Press the Play/Pause (▶II) button during playback.

♦ To resume, press the Play/Pause (▶II) button again.

➢ ♦ Depending on the disc, the initial disc information screen may look disc to disc.

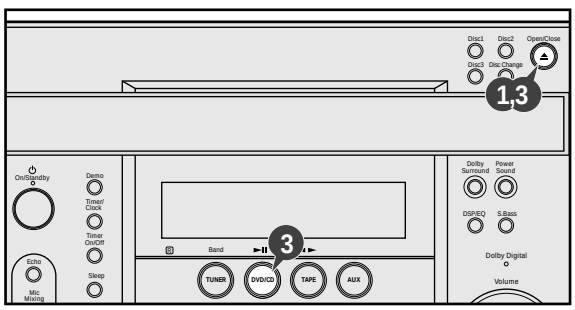
♦ When playing a DVD containing MPEG format, video may not be reproduced correctly and you may get picture distortion.

Stopping Playback

Press the Stop (■) button during playback.

♦ During playback, when the Stop (■)button is pressed, the position is stored in the memory, and ▶■ STOP is shown on the display.
When the Play/Pause (▶II) button or Return button is pressed subsequently , playback resumes from the position at which it was stopped.

♦ If the Stop (■) button is pressed a second time, the resume play' memory function is canceled, and ■ STOP is shown on the display. When the Play/Pause (▶II)button is pressed, playback starts from the beginning.



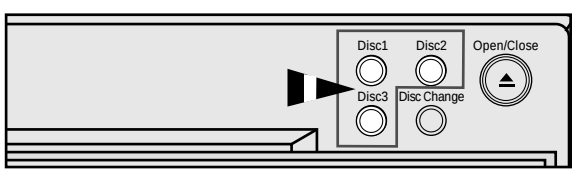
Selecting a Disc in the CD changer

The CD function is automatically selected when DISC SKIP is pushed.

To select a specific disc, press the corresponding Disc (1, 2, 3) button on the front panel or Disc Skip on the remote control, until the required disc indicator flashes.

➢ ♦ If you use the Disc (1, 2, 3) function when listening to the radio or to a tape, the system switches automatically to the DVD/CD mode.

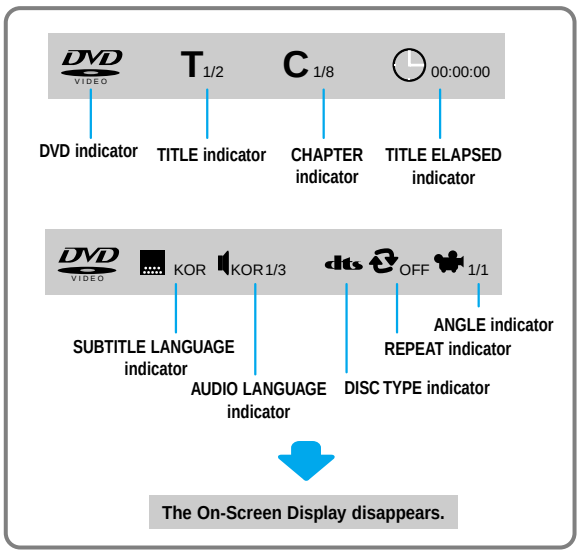
♦ If the disc selected is not loaded, the next disc is played automatically.



DVD Playback

Using the On-Screen Display

Press the **Display** button on the remote.



What is a Title?

♦ A movie contained in a DVD disc.

What is a Chapter?

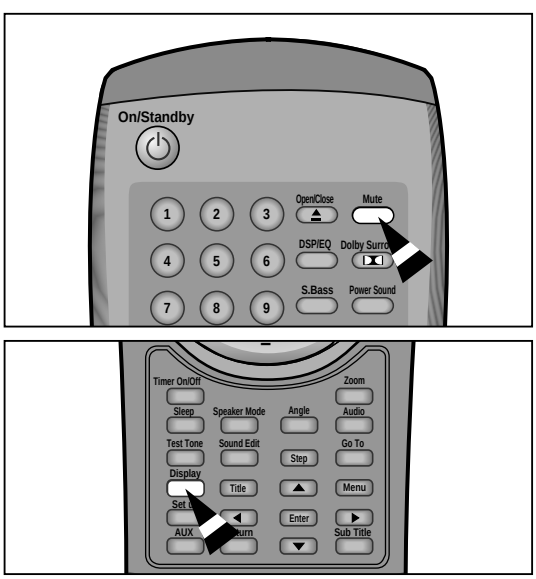
♦ Each Title on a DVD disc is divided into several smaller sections called "chapters".

Turning the sound off temporarily?

Press the Mute button during playback.

♦ This operation may be useful when you need to greet the guests or answer the telephone.

➢ ♦ If the player is left for more than 3 minutes in pause mode, it will stop.



Forward/Reverse Searching

During playback, you can search quickly through a chapter or track for a specific scene or tune.

High-Speed Playback

Press the ◀◀ and ▶▶ button.

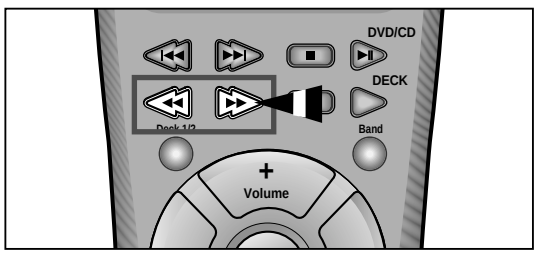
Each time the ◀◀ button is pressed

◀◀ X 2 → ◀◀ X 4 → ◀◀ X 8 → ▶ PLAY

Each time the ▶▶ button is pressed

▶▶ X 2 → ▶▶ X 4 → ▶▶ X 8 → ▶ PLAY

♦ **◀ playback (reverse playback) is possible on DVDs.**

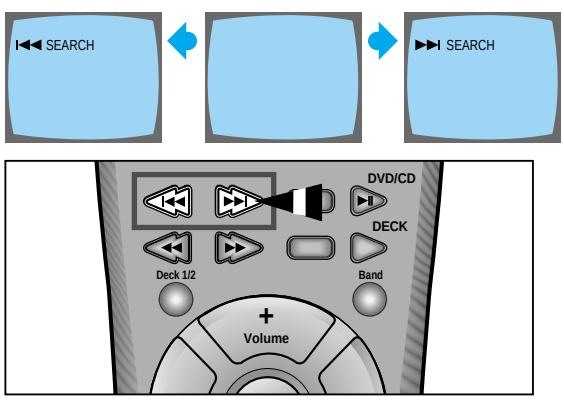


Skipping through a Chapter

Press the ⏮ and ⏭ button.

♦ **Each time the button is pressed during playback, it moves to the next or previous chapter and plays it.**

♦ **However, you cannot skip forward or backward through consecutive the chapters.**



Playing Frame by Frame

Press the Step button.

♦ The picture moves forward one frame each time the button is pressed.

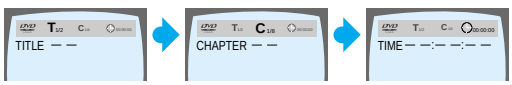
➢ ♦ No sound is heard during high-speed playback and step motion.

Forward/Reverse Searching (Cont'd)

To move directly to a title, chapter, or time

1 Press the **Go To** button.

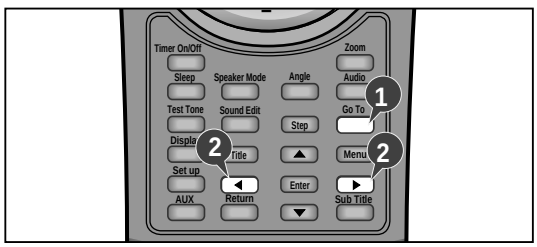
♦ Each time the button is pressed, it repeats as shown below.



2 Press **Number(0~9)** button or the **Left/Right** (◀ / ▶) button.

♦ Each The desired scene is located and then played.

♦ Depending on the disc, the Title function may not work.

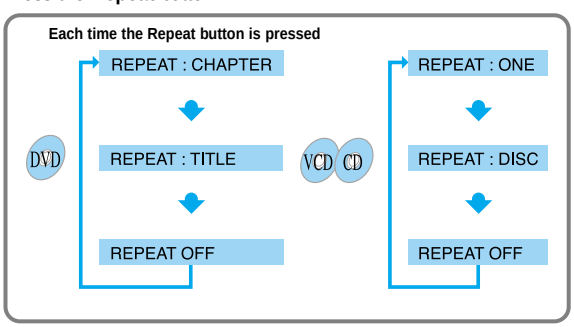


Repeat Playback

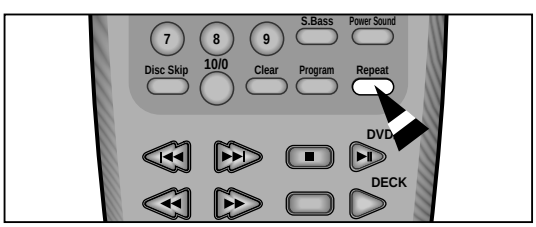
Repeat playback allows you to repeat a chapter, title, or track.

Playing Repeatedly

Press the **Repeat** button.



♦ Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on.
To operate this feature, press the MENU button, and then select "PBC OFF".



Using Disc Menu/Title

To Select the Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.

1 Press the **Menu** button during playback.

♦ The Menu Screen appears.

♦ When playing a VCD version 2.0, you can operate it using PBC On/Off function.

2 Use the **Up/Down** (▲ / ▼) or **Left/Right**(◀ / ▶) button to access the different features.

3 Press the **Enter** button.

♦ The selected item will play.

Using the Title Menu

Press the **Title** button.

♦ For DVDs containing multiple titles, you can view the title of each movie.

♦ Depending on the disc, this function may either not work at all, or may work differently.

Program Playback

GB

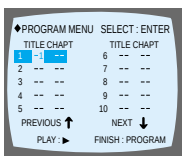
Use this function with video and music CDs to play the tracks in a particular order.

To Program Tracks in a particular order

1 Press the **Program** button.

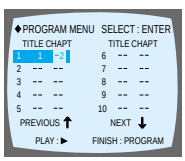
2 Press the **Enter** button then use the Number buttons to select the desired title.

♦ You can use also just the **Left/Right** (◀ / ▶ / ▲ / ▼) button.



3 Press the **Enter** button, then use the Number buttons to select the desired chapter.

♦ You can use also just the **Left/Right** (◀ / ▶ / ▲ / ▼) button.

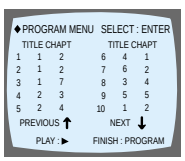


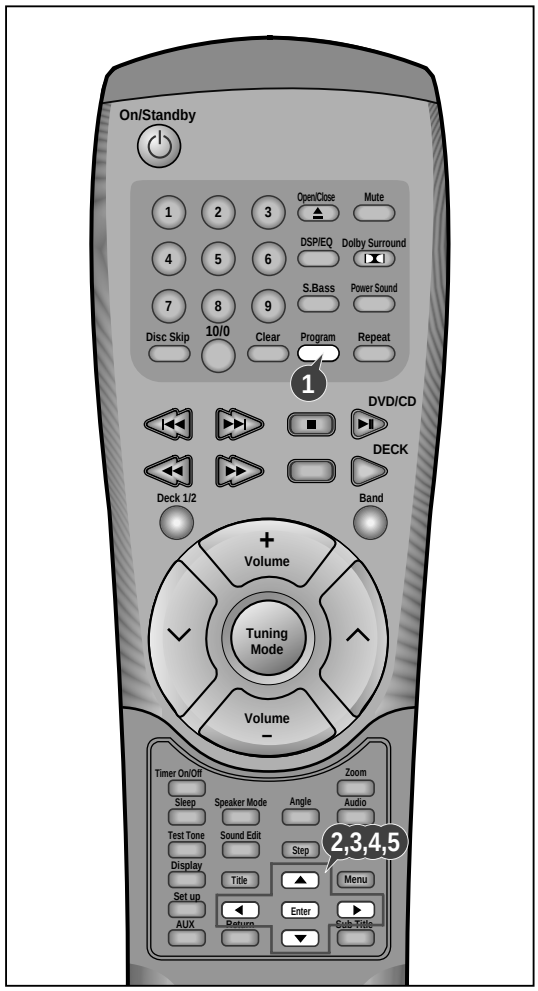
4 Press the **Enter** button.

♦ The selected track number is programming and the cursor moves to the next number.

5 At this time, you can continue programming if you want to.

♦ When programming more than NEXT↓ 10 tracks, select and then press the **Enter** button.
The program selection screen where you can program up to 10 additional tracks appears.





To Playback the Tracks in the Programmed Order

♦ Press the **Play/Pause** (▶II) button.

To Cancel the Programming

♦ Press either the **Program** button or **Stop** (■) button.

Program Playback (Cont'd)

To Change the Program

1 Press the **Up/Down** (▲ / ▼) button to select the track number to be changed.

2 Press the **Enter** button to select the title or chapter to be changed.

- The cursor moves to the next number when the **Enter** button is pressed again.

3 Press the **Clear** button and then press the **Number** buttons.

- You can use also just the **Left/Right** (◀ / ▶) button.

4 Press the **Enter** button.

- The cursor moves to the number below.

5 Repeat steps 1-4 above to change the program.

To delete the entire Program

- Press the **Stop** (■) button twice during playback.
- Press the **Stop** (■) button once when in the Stop mode.
- Press the **Open/Close** (▲) button on the main unit.
  The disc tray will open and then close. The program will then be deleted.

When you have entered a wrong number

Press the Clear button.

- When you want to delete a selection during programming, select the track (or chapter, or title) to be deleted and then press the Clear button.

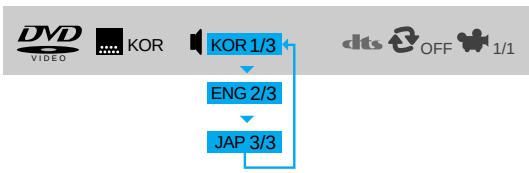
➢ - You can program or change particular tracks for VCD or CD discs in the same manner.

Selecting the Audio Language/Subtitle Language

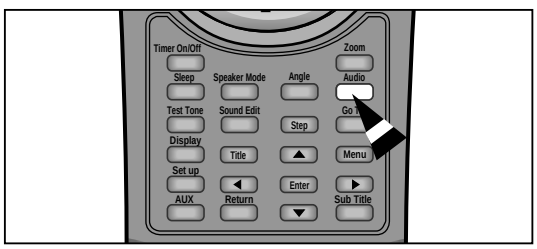
Selecting the Audio Language

Press the **Audio** button.

- Depending on the number of languages recorded on a DVD disc, a different audio language (KOREAN, ENGLISH, JAPANESE, etc.) is selected each time the button is pressed.



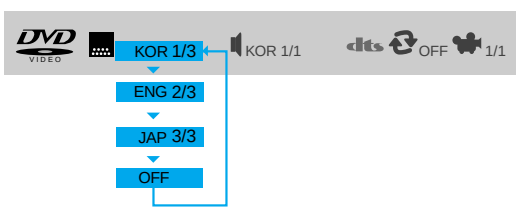
➢ - Depending on the disc, DTS or DIGITAL PRO LOGIC can be selected.



Selecting the Subtitle Language

Press the **Subtitle** button.

- Depending on the number of languages recorded on a DVD disc, a different subtitle language (KOREAN, ENGLISH, JAPANESE, etc.) is selected each time the button is pressed.
- To make the subtitles disappear, select "OFF".



➢ - ⃠ The word INVALID appears on the TV screen!
- If this message appears on the TV screen while buttons are being operated, that operation is not possible with that particular disc.
- Depending on the disc, the audio or subtitle language function may not work.

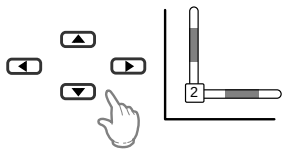
GB

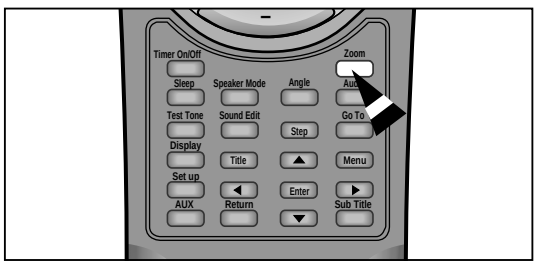
Various DVD Functions

To enlarge an image

Press the **Zoom** button.

- Images can be enlarged 2x and 4x.
- During DVD playback, press the ZOOM button to zoom in 2X/4X/normal, in that order.
- Press (◀ / ▶ / ▲ / ▼) to move the enlarged portion you want to watch.

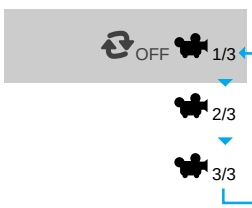


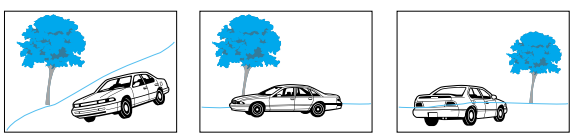


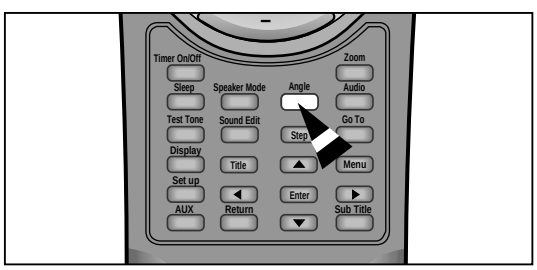
Selecting the desired Screen Angle

Press the **Angle** button.

- This function only works with discs on which multiple angles have been recorded.
- During playback, press the **Angle** button to select the desired angle in 1/3, 2/3, 3/3, normal, in that order.







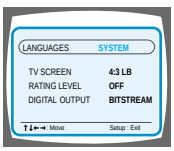
System Setup

You can use the DVD player's Setup function to select the TV screen ratio, rating limit, or digital output mode.

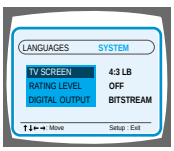
To Set up the System

1 From the stop mode, press the **Setup** button.

2 Press the **Left/Right** (◀ / ▶) button to select the system.

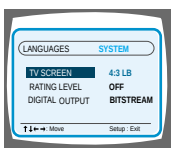


3 Press the **Up/Down** (▲ / ▼) button to select the desired item.

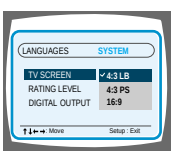


4 Press the Enter button or **Right** (▶) button.

- Move to the detailed items.
- Then press the **Left** (◀) button to return to the previous step.



5 Press the **Up/Down** (▲ / ▼) button to select the desired sub-item and then press the Enter button.



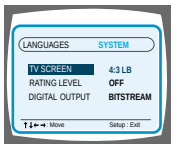
To End the System Setup

- Press the **Setup** button again.

System Setup (Cont'd)

TV SCREEN(TV SCREEN RATIO)

Select when you want to watch a 16:9 screen ratio DVD movie on a TV with a 4:3 ratio screen.



4:3LB
- You can see the full 16:9 picture, but black bars will appear at the top and bottom of the screen.

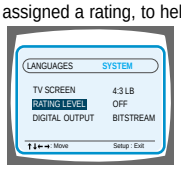
4:3PS
- You can only view the central portion of the 16:9 screen.

16:9
- You can view in wide screen but the top and bottom of the picture will be cut off.

- However if the movie is recorded in 4:3 ratio, you cannot view the full 16:9 picture with the above functions.

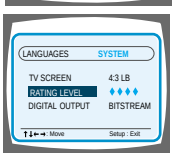
RATING LEVEL

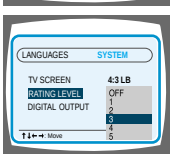
The Rating Level function works in conjunction with DVDs which have been assigned a rating, to help control the type of DVD that your family watches.



1 Select RATING LEVEL, then press the **Enter** button.

2 Use the number(0~9) buttons to input a 4-digit password.
- The player's password is set to "7890" by default.



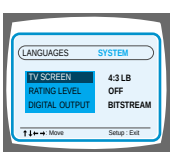


3 Use the **Up/Down** (▲/▼) button to select either RATING LEVEL or NEW PASSWORD, and then press the Enter button.
- There are up to 8 rating levels on a disc.
- If LEVEL 6 is selected, a disc which contains rating LEVEL 7 and above cannot be played.
- If you select NEW PASSWORD, the screen changes and enables you to enter the new password.

When the rating level password has been forgotten

While the player is in the stop mode, hold the Mono/ST button down on the main unit for more than 5 seconds.
- "INITIAL" appears on the display and all default settings will return to Factory Preset.

DIGITAL OUTPUT



BITSTREAM Select this if Dolby Digital 5.1 CH connections have been made.
- Sends a digital signal that carries the Dolby Digital 5.1 or DTS multichannel information to your external decorder.

LPCM Select this otherwise.
- Sends a linear PCM(Pulse Code Modulation), or 2 channel stereo signal, to your A/V receiver.

Setting up the Language Features

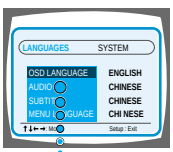
GB

Using the DVD player's Setup function, you can customize the Menu Language, Subtitle Language, and Disc Menu Language.

To set up the language feature

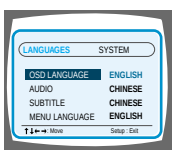
1 Press the **Setup** button from the stop mode.

2 Press the **Up/Down** (▲/▼) button to select the desired item.

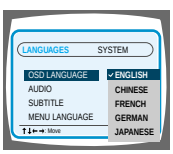


OSD LANGUAGE	(PLAYER MENU LANGUAGE)
AUDIO	(AUDIO LANGUAGE)
SUBTITLE	(SUBTITLE LANGUAGE)
MENU LANGUAGE	(DISC MENU LANGUAGE)

3 Press the **Enter** button or **Right** (▶) button.
- Move to the language features.
- Then press the **Left** (◀) button to return the previous step.



4 Press the **Up/Down** (▲/▼) button to select the desired language and then press the **Enter** button.



To End the Language Features Setup

- Press the **Setup** button again.

MP3 Playback

GB

This system is incorporated with an MP3 decoder. You can play back MP3 tracks (files)recorded on CD-Rs,CD-RWs,and CD-ROMs.

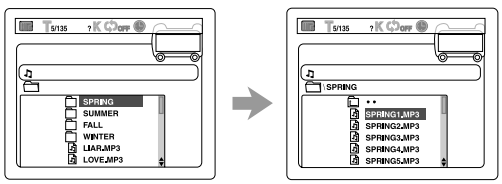
Starting Playback

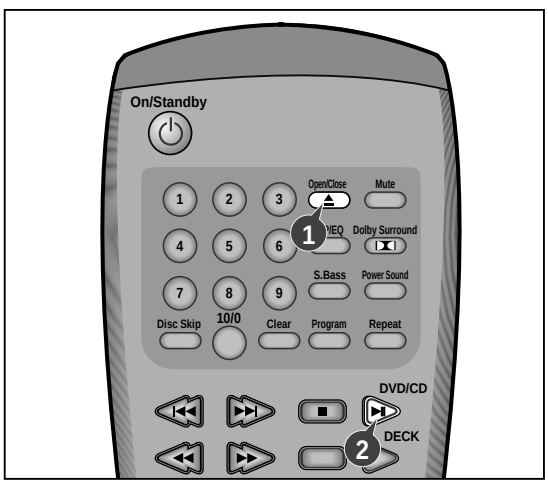
- It is recommended to turn on your TV when playing back an MP3 disc.

1 Press the **Open/Close**(▲) button to load a disc.

2 Press the **Play/Pause**(▶II) button.

- After detecting the disc, playback starts.
- The on-screen bar and the contents recorded on the MP3 disc will be shown on the TV if it is turned on.





To stop during playback

Press the **Stop** (■) button.

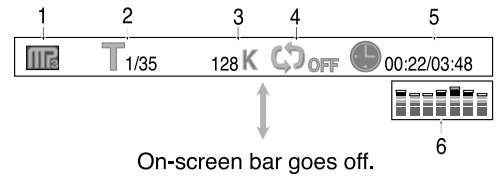
What is MP3?

MP3 is an abbreviation of Motion Picture Experts Group (or MPEG) Audio Layer 3. MP3 is simply a file format with a data compression ratio of 1:10 (128 Kbps*).
That means,by using MP3 format, one CD-R or CD-RW can contain 10 times as much data volume as a regular CD can.
*Bit rate is the average number of bits that one second of audio data will consume. The measuring unit used is Kbps (1000 bits per second).
To get a better audio quality, choose a higher bit rate. The most popular bit rate for encoding (recording)is 128 Kbps.

To go off the on-screen bar

Press the **Display** button.

- Each time you press the button, the on-screen bar appears in sequence.



1 : Disc type
DVD VCD CD MP3

2 : Current track (file) and total number of the tracks on the disc
- Ex.: 1st track is playing out of 35 tracks recorded.

3 : Bit rate
- Ex.: Bit rate used for recording the loaded disc is 128 Kbps. (See the previous page.)

4 : Repeat mode indicator
- Ex.: When repeat mode is turned off.
  See page 28 for more details.

5 : Elapsed playing time and the total playing time of the current track

6 : Sound indication
- Indicates sound input level. (Only appears during playback.)

MP3 File Compatibility

- This system can only read MP3 files that are recorded in the format that is compliant with ISO 9660 Level 1 or Level 2.
- The system can read or play MP3 files only with the extension code —".mp3 ".
- ID3*tags cannot be shown on the display.
  *An MP3 file can contain file information called "ID3 Tag " where its album name, performer, rack title, etc. are recorded. There are two versions —ID3v1 (ID3 Tag version 1)and ID3v2 (ID3 Tag version 2).

CD-R/RW playback compatibility

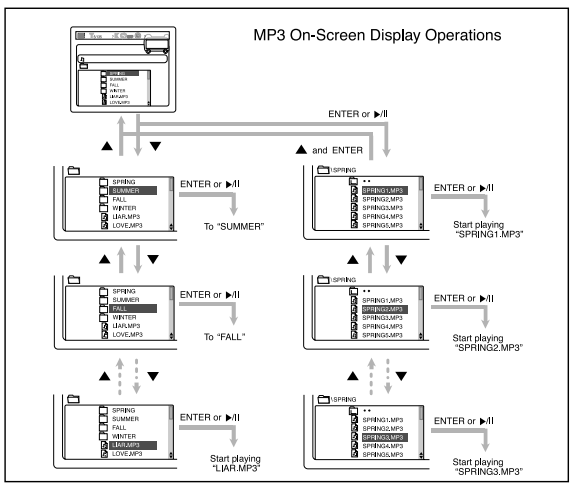
- Your DVD player can also play CD-R and CD-RW discs recorded in digital audio format. When recording your own CD-R or CD-RW discs, make sure that the recording session is properly terminated, or they will not be playable. (Depending on disc properties and recording quality, some CD-R/RW may not be playable.)
- CD-RW has a lower reflection rate than CD-R media and consequently it will take a longer to read CD-R discs.
- CD-RW discs recorded at high speed tend to be difficult for the DVD player to read. If the recording speed for the CD-RW disc is not predetermined, write it at low speed.

GB

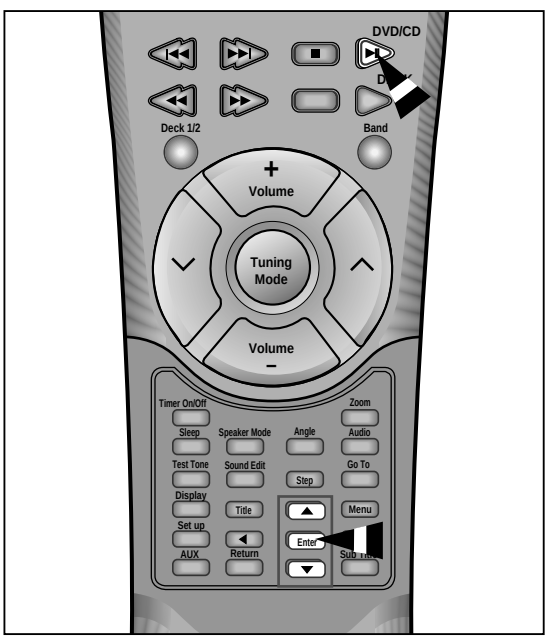
Operations Using the On-Screen Display

♦ It is recommended to turn on your TV when playing back an MP3 disc.

♦ When the loaded MP3 disc is recognized, the following on-screen display appears on the TV screen.
(The contents of this on-screen display varies according to the disc — the way MP3 tracks were recorded on the disc.)



Button	To do
ENTER, ▶/II	Start playback or go into a directory.
▲/▼	Select a track or directory.



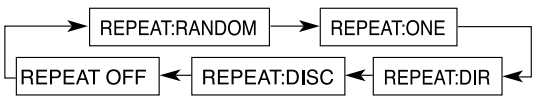
Repeating Playback

♦ On an MP3 disc, Repeat A↔B cannot be used.
You can enjoy only repeat play.

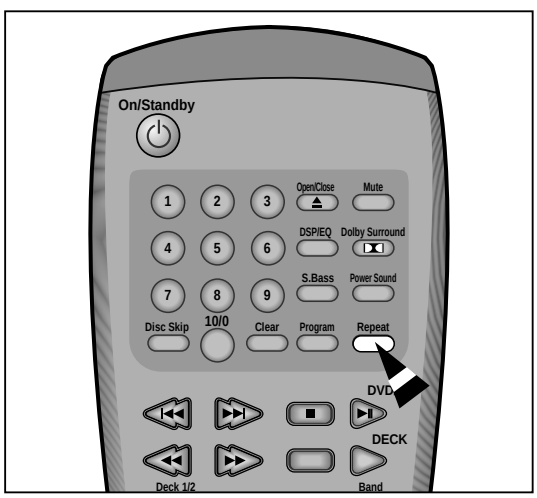
Press the **Repeat** button.

♦ The indication corresponding to the selected mode appears on the TV screen.

♦ Each time you press the button, repeat mode changes as follows:



REPEAT:RANDOM
: All tracks recorded on the disc will be played once at
REPEAT:ONE
: Current track will be repeated.
REPEAT:DIR
: Tracks in the current directory will be repeated.
REPEAT:DISC
: All tracks on the disc will be repeated.
REPEAT OFF
: Repeat play is canceled.(Normal play is resumed.)



Dolby Surround

GB

Dolby Surround modes

➢ Press the **Dolby Surround** button.

♦ PRO-Logic is selected, and the playback sound has the Dolby Surround effect.

☛ To cancel Dolby Surround mode
Press the **Dolby Surround** button repeatedly until OFF is displayed.

➢ ♦ When playing DVD, if an Audio is Dolby Digital, it can not be operated.

♦ When being connected to headphones and microphone, this function cannot be operated.

Additional Dolby Surround modes

In addition to the PRO-Logic mode, this unit is also equipped with the 3 STEREO modes.

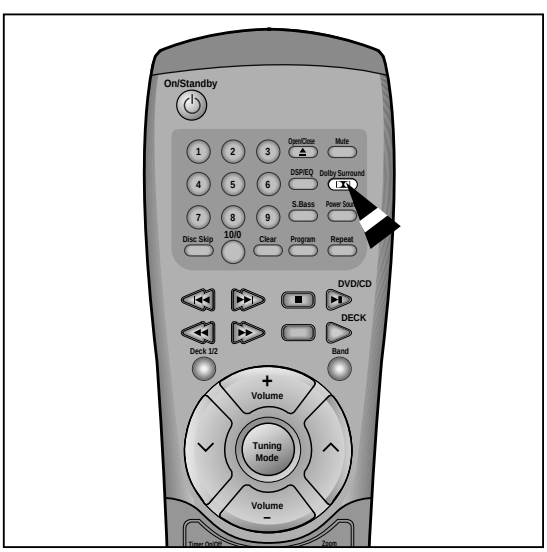
♦ **PRO-Logic :** Use this mode when rear speakers are connected. The center channel signals are output through the left and right speakers.

♦ **3 STEREO :** Use this mode when no rear speakers are connected. This mode reproduces rear sounds through the front speakers.

PRO-Logic → 3 STEREO → OFF

➢ ♦ Depending on the sound source or listening conditions, a surround effect may not be obtained even when the Dolby Surround is on.

♦ The full Dolby Surround effect cannot be obtained when using software without DOLBY SURROUND PRO · LOGIC mark. In this case, use the DSP system instead.



Adjusting Speaker Level Balance

The unit is equipped with a built-in test signal generator called a noise sequencer which outputs a noise signal that 'travels' from channel to chanel. This enables the simple adjustment of sound levels, to achieve, at the listening position, the same apparent loudness from each channel. Use the remote control.

1 Press the **Dolby Surround** button.
Result: "**PRO-LOGIC**" appears on the displayed.

2 Press the **Test Tone** button.

♦ A noise signal is sent to each channel in turn in the following sequence.

L → CNTR → R → REAR

(L : Left Speaker, CNTR : Center Speaker,
R : Right Speaker, REAR : Rear Speaker)

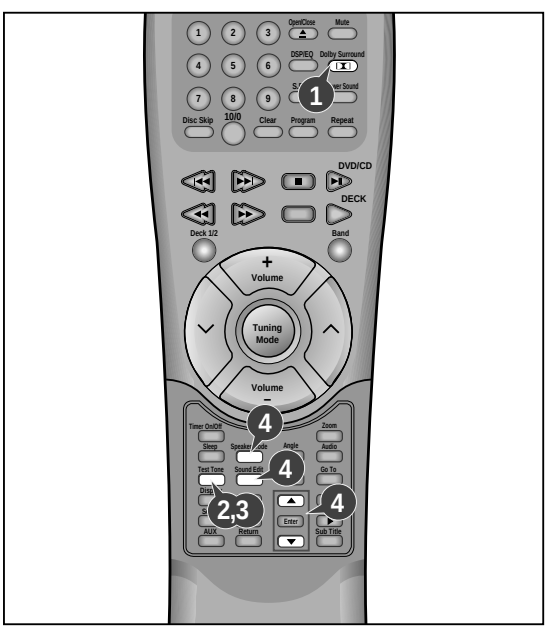
3 Press the **Test Tone** button again to stop the noise signal.

4 To change the sound levels or delay time after adjusting the balance with the noise sequencer.

♦ Press the **Sound Edit** button.
While **L, R, CNTR, REAR** is displayed, press the UP/DOWN (▲/▼) button.

♦ Press the **Speaker Mode** button.
While **CNTR, REAR, DELAY TIME** is displayed, press the UP/DOWN (▲/▼) button.
– **CNTR** : Large/Small/None
– **REAR** : USE/None
– **DELAY TIME** : 15/20/25/30 MS

➢ When the Dolby surround system is on, this function can be operated.



Dolby Surround (Cont'd)

GB

To set the delay time

- When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to customize the sound to the acoustics of your room.
- Setting Center Speaker
  If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms.
  Otherwise, change the setting according to the table on the table.
- Setting Rear Speakers
  If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms.
  Otherwise, change the setting according to the table.

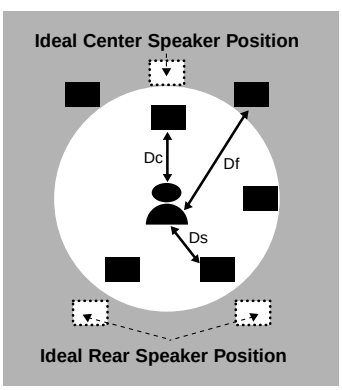
(A)=Df-Dc

Distance of (A)	Value(ms)
50	1.3
100	2.6
400	3.9
200	5.3

(B)=Df-Ds

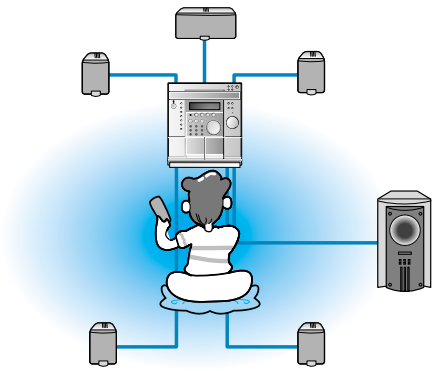
Distance of (B)	Value(ms)
200	5.3
400	10.6
600	15.9

Dc: Distance from center speaker to listening position
Df: Distance from front speakers to listening position
Ds: Distance from rear speakers to listening position



Arrange all speakers within a circle as shown in the figure.

Speaker Setting Methods



- Front Speakers

  Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

- Center Speaker

  Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

- Rear Speakers

  Set the rear speakers further back parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level. If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

- Subwoofer Speaker

  Place the subwoofer at any convenient location within the vicinity of the listening position.

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Searching for and Storing the Radio Stations

GB

You can store up to:

- 15 FM stations
- 15 AM(MW) stations

1 Switch the system on by pressing **On/Standby**.

2 Select the TUNER function by pressing **TUNER** on the front panel.

3 Select the required frequency band by pressing **TUNER (Band)** again on the front panel or **Tuner (Band)** on the remote control.
Result: The appropriate indication is displayed:

- **FM** Frequency Modulation
- **AM(MW)** Medium Wave

4

To search for a station...	Press Tuning Mode
Manually	One or more times until **MANUAL** is displayed.
Automatically	One or more times until **AUTO** is displayed.

5 Select the station to be stored by:

- Turning the **Multi Jog** knob to the right or to the left to increase or decrease the frequency respectively
  or
- Pressing **Tuning** ⌄ or ⌃ on the remote control

- To scroll through the frequencies faster when searching manually, hold down the **Tuning Mode Down** or **Up** buttons.
- The automatic search procedure may stop on a frequency that does not correspond to a radio station. If this happens, use the manual search mode.

6 Adjust the volume by:

- Turning the **Volume** knob on the front panel
  or
- Pressing the **VOL. +** or **–** buttons on the remote control

7 Select the stereo or mono mode by pressing **Mono/ST**.

8 If you do not want to store the radio station found, revert to Step 4 and search for another station.
Otherwise:

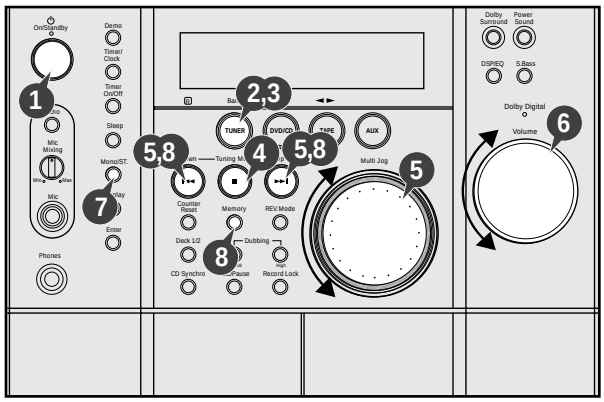
a Press **Memory**.
Result: The **PRGM** is displayed for a few seconds.

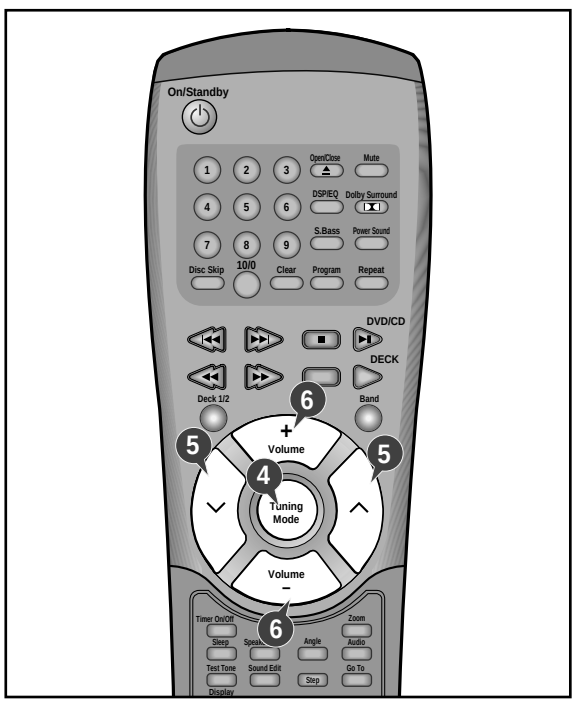
b Press **Tuning Mode Down** and **Up** to assign a program number between 1 and 15.

c Press **Memory** to store the radio station.
Result: **PRGM** is no longer displayed and the station is stored.

9 To store any other radio frequencies required, repeat Steps **3** to **8**.

➢ The PROGRAM function can be used to assign a new station to an existing program number.

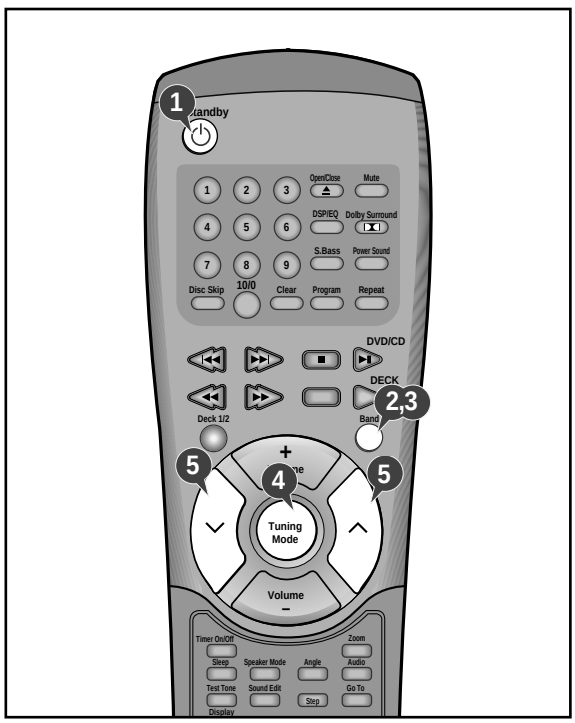




Selecting a Stored Station

You can listen to a stored radio station as follows:

1. Switch the system on by pressing **On/Standby**.
2. Select the TUNER function by pressing **Band** on remote control.
3. Select the required frequency band by pressing **Band** on the remote control or **TUNER** (Band) again on the front panel.
4. Press the **Tuning Mode** button on the front panel of the unit, or the **Tuning Mode** button on the remote control until "**PRESET**" is displayed.
5. Tuning the **Multi-Jog** on the front panel left or right until the desired station is found.
   or
   Select the desired station by pressing the station number stored, using the **Tuning** ⌄ or ⌃ button on the remote control.
   Result: The desired station is now received.

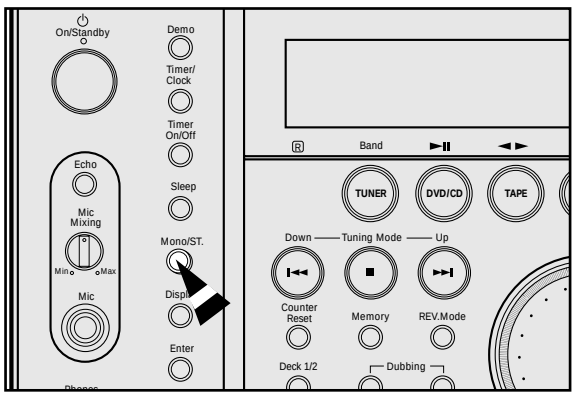


Improving Radio Reception

You can improve the quality of radio reception by:

- Rotating the FM or AM(MW) aerial
- Testing the positions of the FM and AM(MW) aerials before fixing them permanently

➢ If reception from a specific FM radio station is poor, press **Mono/ST.** to switch from stereo mode to mono. The quality of the sound will be improved.



Listening to a Cassette

GB

➢ ♦ Always treat your cassettes with care; refer, if necessary, to the section entitled "**Precautions When Using Audio Cassettes**" on page 33.

1 Switch the system on by pressing the **On/Standby** button.

2 Select the TAPE function by pressing **TAPE** on the front panel.

3 Open either cassette deck 1 or 2 by pushing and releasing the deck cover where **PUSH EJECT** (⏏) is written.

4 Insert the pre-recorded cassette with the open edge of the tape facing downward.

5 Close the deck by pushing on it until it clicks into place.
Result: Depending on the deck selected, the **1** or **2** indication is displayed in front of the counter number.

➢ If you insert a cassette in both decks, the system selects the deck in which you inserted the second cassette.

6 If you have inserted two cassettes, press **Deck 1/2** on the front panel or directly the **Deck 1/2** button on the remote control to select the cassette to be played.

Result: Depending on the deck selected, the TAPE 1 or TAPE 2 indication is displayed.

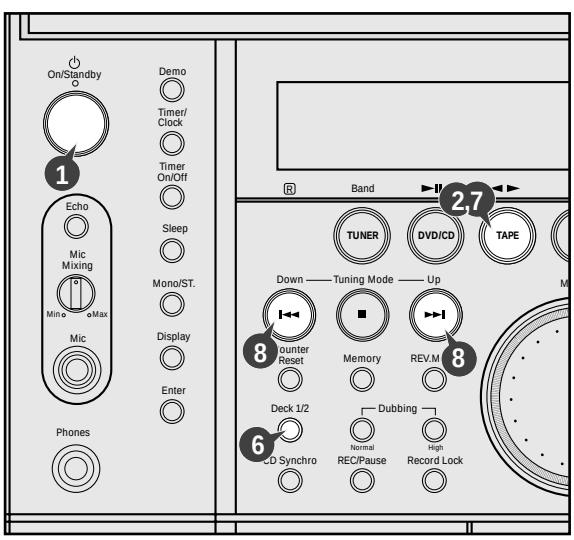
7

To listen to...	Press ...
Side A	TAPE (◄►) DECK 1 and DECK 2
Side B	TAPE (◄►) DECK 2 only

Result: The cassette starts playing.

8 When the cassette is stopped, select one of the following functions as required.

To...	Press ...
Rewind the cassette	⏮
Fast-forward the cassette	⏭



CD Synchro Record Feature

You can record a compact disc on a cassette in two different ways:

♦ Synchronised recording
♦ Direct recording

This feature enables you to synchronize the start of the recording with the start of the disc or track of your choice.

1 Switch the system on by pressing **On/Standby**.

2 Insert a blank cassette in Deck 2.

3 Select the DVD/CD function by pressing **DVD/CD** on the front panel.

4 Load a compact disc.

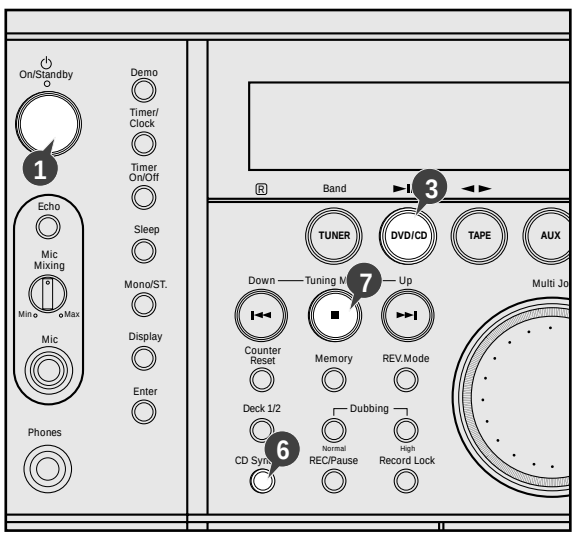
5 Select the required disc.

6 Select the required track and press **CD Synchro** or press **CD Synchro** directly to start recording at the beginning of the disc.
Result: **REC** is displayed and recording starts.

7

To stop...	Press ...
Recording and playing the compact disc	■

➢ The function of CD Synchro is operated in only CD.

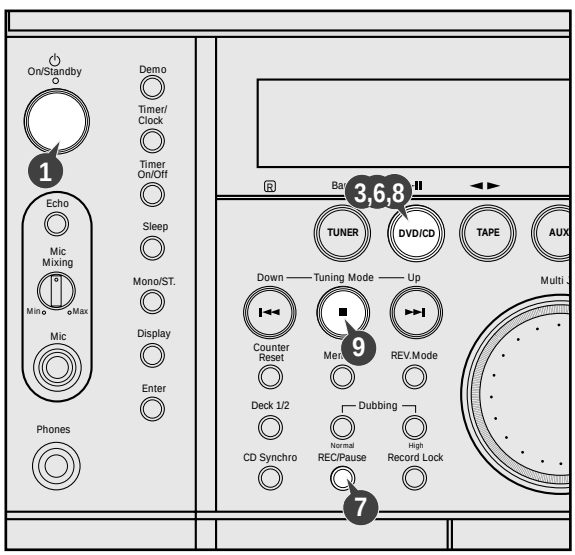


Recording a Compact Disc

The direct recording mode enables you to start recording with any track on the compact disc.

- You can only record on cassettes in Deck 2.
- You do not need to adjust the volume, as it has no effect on the recording.

1. Switch your system on by pressing **On/Standby**.
2. Insert a blank cassette in Deck 2.
3. Select the DVD/CD function by pressing **DVD/CD** on the front panel.
4. Load the compact disc.
5. Select the required disc.
6. Select the required track on the compact disc and press ►II on the front panel or ►II on the remote control to set the compact disc player to Pause mode.
7. Press the **REC/Pause**.
   Result: **REC** flashes.
8. Press the ►II to start playing the track.
   Result: The track is recorded on the cassette.
9. When you have finished recording, press ■ for Deck 2 on the remote control or ■ on the front panel to stop recording.

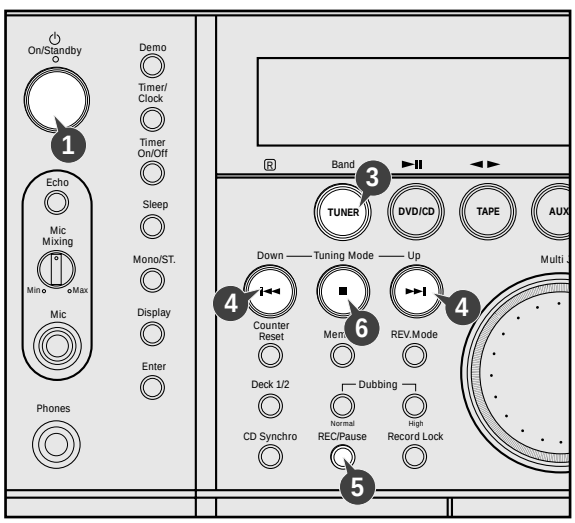


Recording a Radio Program

You can record a radio program of your choice.

- You can only record on cassettes in Deck 2.
- You do not need to adjust the volume, as it has no effect on the recording.

1. Switch the system on by pressing **On/Standby**.
2. Insert a blank cassette in Deck 2.
3. Select the TUNER function by pressing **TUNER** on the front panel.
4. Select the radio station that you wish to record by pressing **Tuning** ^ or v on the remote control or by press the **Tuning Mode Down** or **Up** on the front panel.
5. Press **REC/Pause**.
   Result: **REC** is displayed in red and recording starts.
6. When you have finished recording, press the ■ for Deck 2 on the remote control or ■ on the front panel to stop recording.



Copying a Cassette (Dubbing)

You can copy a cassette from Deck 1 to Deck 2. Two options are available:

- Normal speed dubbing
- High-speed dubbing

➢
- You do not need to adjust the volume, as it has no effect on the recording.
- Take care not to insert the tape to be copied in Deck 2, as it will be erased when you start recording.

1 Switch your system on by pressing **On/Standby**.

2 Insert a blank cassette in Deck 2.

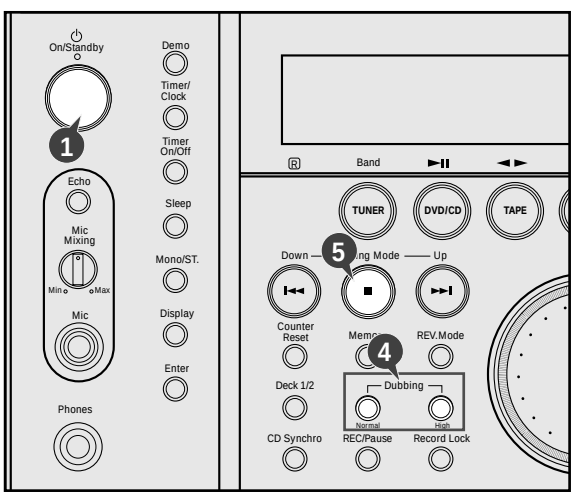
3 Insert the tape to be copied in Deck 1.

4

To copy a cassette at...	Press...
Normal speed	Normal
High speed	Hi-Speed

Result: The appropriate indications are displayed and the cassette in Deck 1 is copied to the cassette in Deck 2.

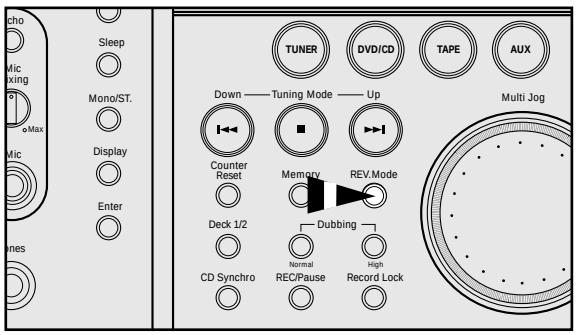
5 Press ■ on the front panel or ■ for each deck on the remote control when you have finished recording.



Selecting the Cassette Playback Mode (Deck 2 Only)

Your mini-compact system has three cassette playback modes which enable you to listen to both sides of a cassette automatically.
Press REV. Mode until the appropriate symbol is displayed.

When the display indicates...	The mini-compact system plays back...
⇥	One side of the selected cassette and then stops.
⇉	One side of the cassette. The other side of the cassette and then stops.
⇄	Both sides of the cassette indefinitely until you press stop.

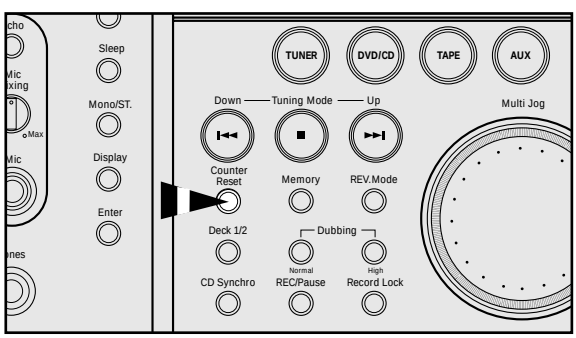


Tape Counter

When playing a cassette in one of the cassette decks, a counter is displayed to enable you to take note of the counter value at the start of each track to start playback at the beginning of the track to which you wish to listen.

➢ Before starting to record a cassette for which you wish to take note of the counter values at the beginning of each track, reset the counter by pressing **Counter Reset** on the front panel.

➢ Each cassette deck has a separate counter.



Timer Function

The timer enables you to switch the system on or off at specific times.
Example: You wish to wake up to music every morning.

➢ If you no longer want the system to be switched on or off automatically, you must cancel the timer.

☛
- Before setting the timer, check that the current time is correct.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **On/Standby**.

2 Press **Timer/Clock** until ◴ **TIMER** is displayed.

3 Press **Enter**.
Result: **ON TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

4 Set the timer switch-on time.

a Set the hour by tuning the **Multi Jog** knob to the right or to the left.

b Press **Enter**.
Result: The minutes flash.

c Set the minutes by tuning the **Multi Jog** knob to the right or to the left.

d Press **Enter**.
Result: **OFF TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-off time already set; you can now set the timer switch-off time.

5 Set the timer switch-off time.

a Set the hour by tuning the **Multi Jog** knob to the right or to the left.

b Press **Enter**.
Result: The minutes flash.

c Set the minutes by tuning the **Multi Jog** knob to the right or to the left.

d Press **Enter**.
Result: **VOL XX** is displayed, where **XX** corresponds to the volume already set.

6 Press **Tuning Down** and **Up** to adjust the volume level and press **Enter**.
Result: The source to be selected is displayed.

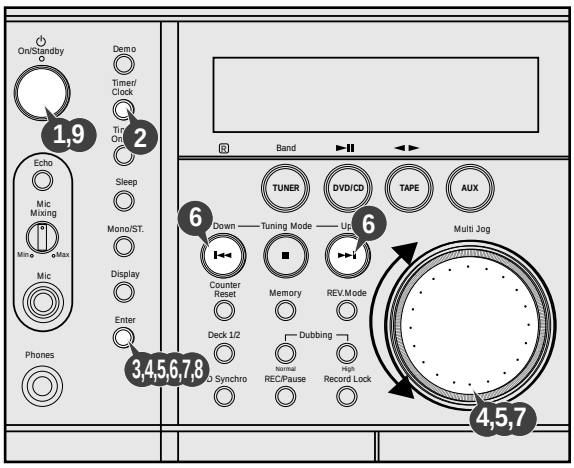
7 Turn the **Multi Jog** knob to select the source to be played when the system switches on.

If you select...	You must also...
TAPE (cassette)	Insert a recorded cassette in one of the decks before setting the system to standby.
TUNER (radio)	**a** Press **Enter**. **b** Select the FM or AM frequency band by tuning the **Multi Jog** knob to the right or to the left. **c** Press **Enter**. **d** Select a preset station by tuning the **Multi Jog** knob to the right or to the left.
CD (compact disc)	**a** Load one or more compact discs. **b** Select the required disc.

8 Press **Enter** to confirm the timer.

9 Press **On/Standby** to set the system to standby mode.
Result: ◴ is displayed to the bottom left of the time, indicating that the timer has been set. The system will switch on and off automatically at the required times.

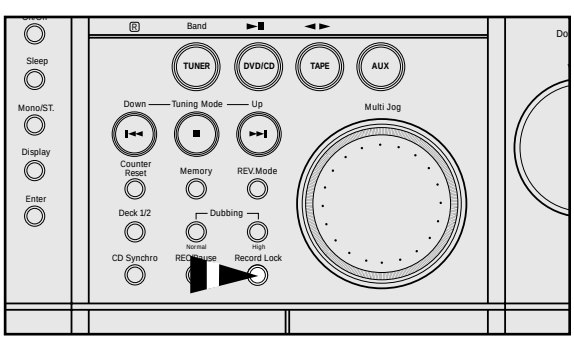
➢ If the timer switch on and off times are identical, the word **ERROR** is displayed.



For the Protection of being Recorded

Press Record Lock (recording protection) button.

➢
- When Record Lock (recording protection) lamp is lighted up all of the buttons are not activated. (Volume, Demo key is activated.)
- It is a function that the recording stop is prevented by other button action during recording.
- Record Lock (recording protection) is activated only during recording.
- When the Record Lock is on (the lamp is on), do not open the cassette door.
- When releasing, press Record Lock button once again.



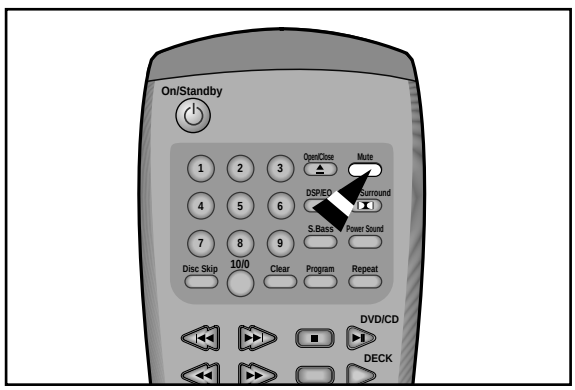
GB

Mute Function

You can turn the sound off temporarily on your system.
Example: You wish to answer a telephone call.

1 Press **Mute**.

2 To switch the sound back on (at the same volume as before), press **Mute** again or the **Volume** buttons.

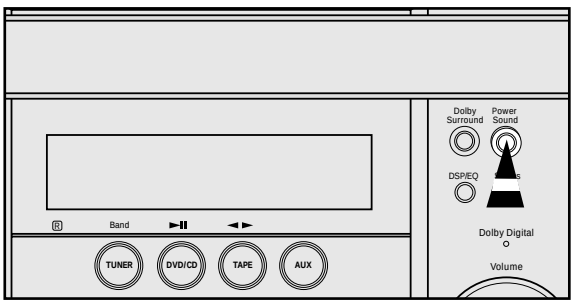


Power Sound Function

This system is equipped with the Power Sound feature, which makes the sound more powerful and full-bodied.

1 Press **Power Sound** button on the front panel.
Result: ♦ The **Power Sound** button on the front panel lights up red.
♦ **P. SOUND** is displayed for a few seconds.
♦ A more powerful resonant sound is diffused.

2 To cancel this function, press **Power Sound** again.



Selecting an Equalizer Preset

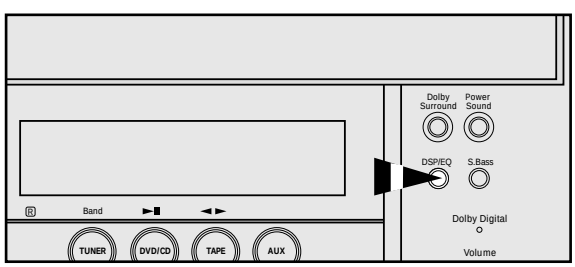
Your mini-compact system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to

Press **DSP/EQ** on the front panel or **DSP/EQ** on the remote control until the required option is selected. Each time the **DSP/EQ** button is pressed in sequence, the equalizer modes and sounds mode "**PASS, POP, ROCK, CLASSIC, CINEMA, HALL, LIVE, DISCO**" are selected in this order.

Equalizer mode

PASS ..... Normal balance (linear)
POP ..... Balance suitable for pop music
ROCK ..... Balance suitable for rock music
CLASSIC ..... Balance suitable for classic music
CINEMA ..... Balance suitable for cinema
HALL ..... Balance suitable for hall
LIVE ..... Balance suitable for live
DISCO ..... Balance suitable for disco

The corresponding indication in the display is preceded by a red arrow (except for the normal balance Pass, for which nothing is displayed).

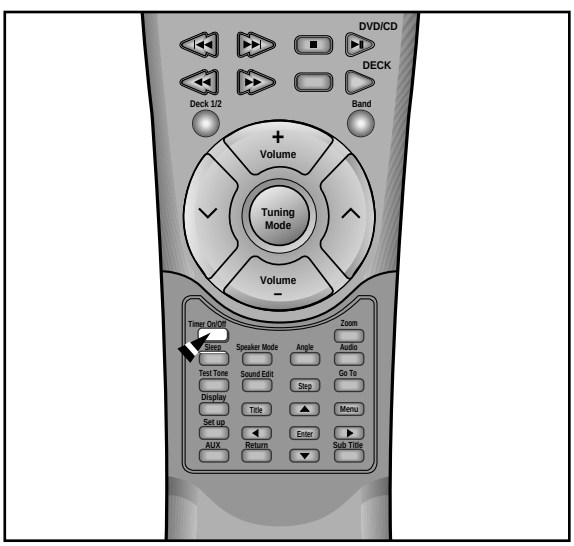


Cancelling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.

➢ You can stop the timer at any time (system on or in standby mode).

To...	Press Timer-On/Off...
Cancel the timer	Once. Result: ◴ is no longer displayed.
Restart the timer	Twice. Result: ◴ is displayed again.



Setting the System to Switch off Automatically

You can set the system to switch off automatically.
Example: You wish to go to sleep to music.

1 Press **Sleep**.
Result: The following indications are displayed:

90 MIN

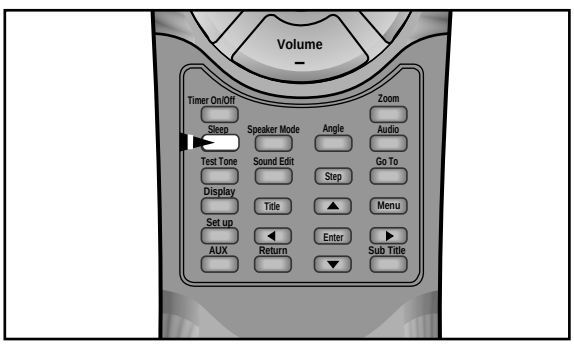
2 Press **Sleep** one or more times to indicate how long the system should continue playing before it switches off:

90 MIN → 60 MIN → 45 MIN → OFF ← 15 MIN ← 30 MIN ←

➢ At any time, you can:

- Check the remaining time by pressing **Sleep**
- Change the remaining time by repeating Steps **1** and **2**

3 To cancel the automatic switch-off, press **Sleep** one or more times the word **SLEEP** disappears.

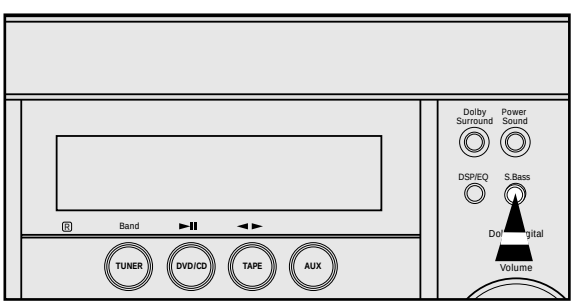


Super Bass Sound

Your mini-compact system has a bass amplification function called S.Bass (Super Bass Sound). This function makes the bass more powerful.

1 Press the **S. Bass** button on the front panel.
Result: **SBS ON** is displayed for a few seconds.

2 To cancel this function, press **S. Bass** again.



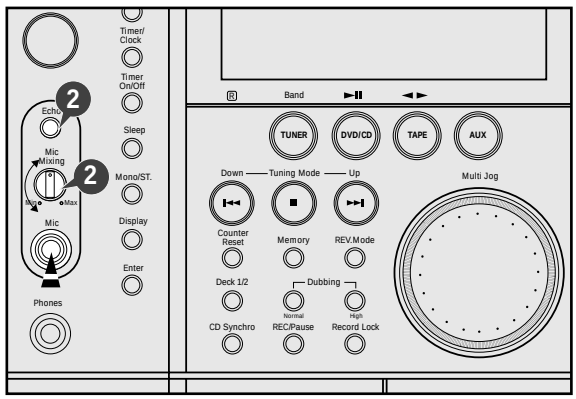
Microphone Function

The microphone enables the user to mix in his or her vocals to sing-along with the music.

Preparation
Plug the microphone with a 6.3mm mic jack into microphone terminal.

1 Turn the **Mic Mixing** swith to adjust the mic volume.

2 Press **Echo** button.
Result: Press **Echo** button to select ON and OFF.

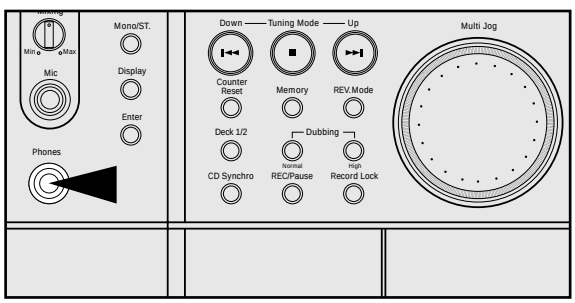


Connecting Headphones

You can connect a set of headphones to your mini-compact system so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 6.3 mm jack or an appropriate adapter.

Connect the headphones to the **Phones** jack on the front panel.
Result: The loudspeakers are no longer used to output the sound.

☛ Prolonged use of headphones at a high volume may damage your hearing.



GB

Connecting to an External Source

The auxiliary input can be used to take advantage of the sound quality of your mini-compact system when listening to other sources.

Examples: ♦ A television
♦ A video disc player
♦ A DAT cassette player
♦ A Hi-Fi stereo video cassette recorder

➢ To connect the external source, the source must have an audio output. In addition, you need an RCA connection cable.

1 Set the system to standby mode and disconnect it and the external source from the main.

2 Connect the audio cable to the rear of the mini-compact system.

Connect the...	To the connector marked...
Red jack	R (right)
White jack	L (left)

➢ For optimum sound quality, do not invert the right and left channels.

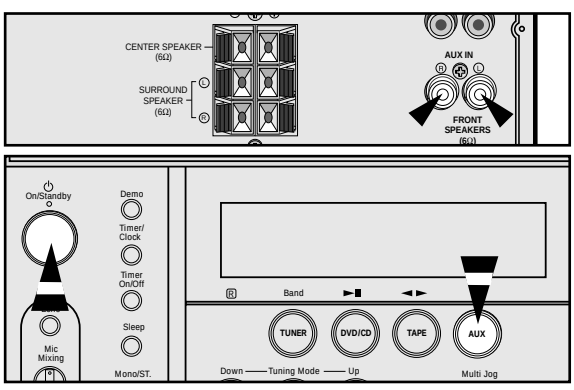
3 Plug the system back into the main socket and press **On/Standby** to switch it on.

4 Select the AUX source by pressing **AUX** on the front panel one or more times.
Result: **AUX** is displayed.

5 Switch the external source on.

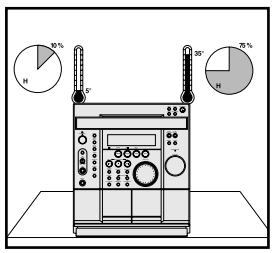
6 Adjust the volume and balance as required:
♦ Volume ♦ Equalizer

Example: You can watch a film and take advantage of stereo sound provided that the original sound track is in stereo(as if you were in a cinema).

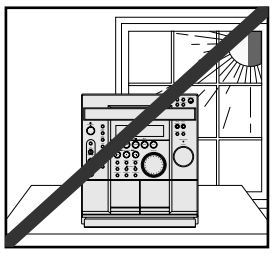


Safety Precautions

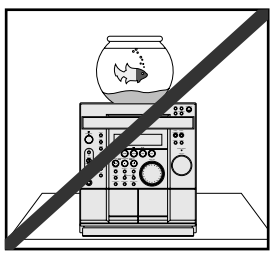
The following diagrams illustrate the precautions to be taken when using or moving your mini-compact system.



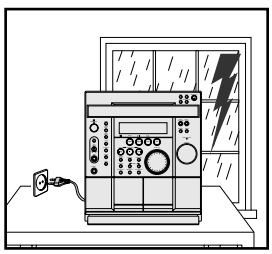
Ambient operating conditions:
Ambient temperature 5°C-35°C
Humidity 10-75%



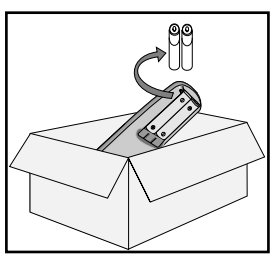
Do not expose the unit to direct sun radiation or other heat sources. This could lead to overheating and malfunction of the unit.



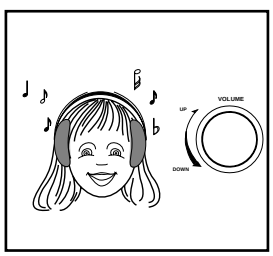
Do not place potted plants or vases on top of the unit. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. In such events immediately disconnect the main plug from the socket.



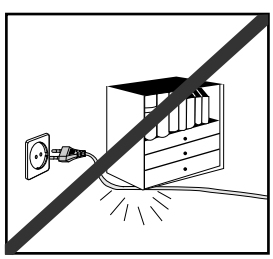
During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.



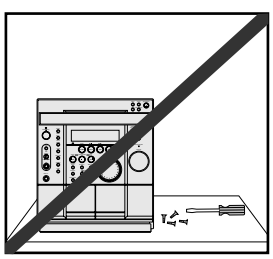
Remove the batteries from the remote control, if not used for any extended period.
Leaking batteries can cause serious damage to the remote control.



When using headphones, take care not to listen at excessive volumes. Extended use of headphones at high volumes will lead to hearing damage.



Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock.



Do not remove any equipment panels. The inside of the unit contains live components, which cause electric shock.

Cleaning Your Mini-Compact System

To obtain the best possible results from your mini-compact system, you must clean the following elements regularly:

- The outer casing
- The compact disc player
- The cassette players (heads, rollers and drive capstans)

☛ Always unplug the system from the wall outlet:

- Before cleaning it
- If you are not going to be using it for a long time

Outer Casing

Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

Compact Disc Player

1 Before playing a compact disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.

2 Regularly clean the player with a special cleaning disc (available from your local dealer).

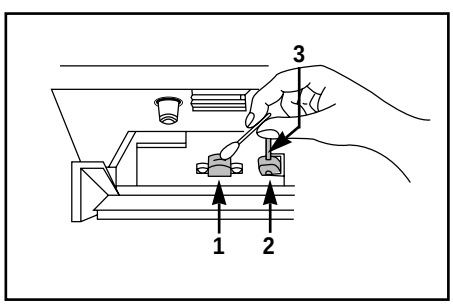
Tape Decks

1 Press Push Eject (⏏) to open the cassette deck.

2 Use a cotton bud and a special cassette cleaning agent to clean the:

- Head (1)
- Rollers (2)
- Drive capstans (3)

☛
- If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
- Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
- If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.



Precautions When Using Compact Discs

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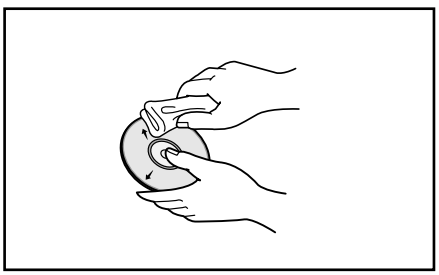
- Handle your compact discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- When you have finished playing a compact disc, always put it back in its case.
- Do not fix paper or adhesive tape to the discs and do not write on the label.
- Clean them with a special-purpose cloth.
- Store your compact discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Always use compact discs marked COMPACT disc DIGITAL AUDIO .



Precautions When Using Audio Cassettes

- Check that the tape in the cassette is sufficiently taught.
- To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive tape.
- When you have finished playing a cassette, always put it back in its case.
- Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.

Disc type and characteristics

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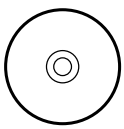
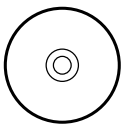
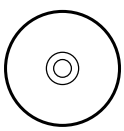
This DVD player is capable of playing the following types of discs, having the corresponding logos:

Disc Types	Logos	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 		Audio + Video	12 cm	Single-sided 2 layers 240 min. Double-sided 2 layers 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG2 system.
			8 cm	Single-sided 2 layers 80 min. Double-sided 2 layers 160 min.	• Various screen and audio functions can be easily selected through the on-screen menu.
VIDEO - CD 		Audio + Video	12 cm	74 min.	• Video with CD sound, VHS quality & MPEG1 compression technology.
			8 cm	20 min.	
AUDIO - CD 		Audio	12 cm	74 min.	• An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
			8 cm	20 min.	

* DO NOT play CD-ROM, CD-I, CD-R and DVD-ROM in this player! (CDGs play audio only, not graphics.)

Disc Markings

Dolby Digital disc

DTS Disc

Digital Audio disc

Stereo disc

NTSC broadcast system in USA, Canada, Japan, South Korea, etc..

PAL broadcast system in U.K, France, Germany, etc.

MP3 disc

Playback Region Number

- Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
- The Region Number for this player is described on the rear panel of the player.

Before Contacting the After-Sales Service

It always takes a little time to become familiar with a new appliance. If you have any of the problems listed below, try the solutions given. They may save you the time and inconvenience of an unnecessary service call.

	PROBLEM	CHECKS/EXPLANATION
GENERAL	The system does not work	• *The main lead is not correctly plugged into a wall socket or the wall socket is not switched on.* • *The remote control batteries need replacing or the polarity has not been respected.* • *The **On/Standby** button has not been pressed.*
	There is no sound	• *The volume has been completely turned down.* • *The correct function (TUNER, CD, TAPE, AUX) has not been selected.* • *You have connected a set of earphones.* • *The loudspeaker wires have been disconnected.* • *The **Mute** button has been pressed.*
	The Timer does not work	• *The timer has been stopped by pressing Timer On/Off.*
	System still doesn't work, even after following steps above.	• *Press the **S. Bass** button for 5 seconds in power 'OFF'(standby), the system is returned the original position (RESET)*
CD/DVD	The compact disc player does not start playing	• *The CD function has not been selected.* • *The disc has been inserted face down or is either dirty or scratched.* • *The laser sensor is dirty or dusty.* • *The system has not been installed on a flat, horizontal surface.* • *Condensation has formed in the player; leave the system in a warm, airy room for at least one hour.* • *This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.*
	The ⊘ icon appears on screen.	• *The features or action cannot be completed at this time because:* *1. The DVD's software restricts it.* *2. The DVD's software doesn't support the feature (e.g., angles).* *3. The feature is not available at the moment.* *4. You've requested a title or chapter number or search time that is out of range.*
	Disc Menu doesn't appear.	• *Check if the disc has a Menu.*
	Playback mode differs from the Setup Menu selection	• *Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.*
	The screen ratio cannot be changed.	• *The Screen Ratio is fixed on your DVDs.*
CASSETTES	The tape does not start playing	• *The TAPE function has not been selected.* • *The cassette has not been inserted correctly.* • *The cassette player has not been closed.* • *The tape is either slack or broken.*
	The volume falls off The cassette is not erased correctly There is excessive wow and flutter	• *The audio heads are dirty.* • *The rollers or drive capstans are dirty.* • *The tape is worn.*
RADIO	Reception is poor or no radio stations are received at all	• *The TUNER function has not been selected.* • *The radio frequency has not been correctly selected.* • *The aerial has been disconnected or is not facing the right way. Turn it until you find the best orientation.* • *You are in a building that blocks radio waves; you must use an outside aerial.*
SUBWOOFER (PS-W100E ONLY)	There's no sound	• *Check that this subwoofer and components are connected correctly and securely.* • *Rotate Volume clockwise to turn the Volume up.*
	The sound is distorted	• *If the input signal is imperfect or distorted.* • *If the input signal level is too high.*

If the above guidelines do not allow you to solve the problem, take a note of:

- The model and serial numbers, normally printed on the rear of the system
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.

Technical Specifications

GB

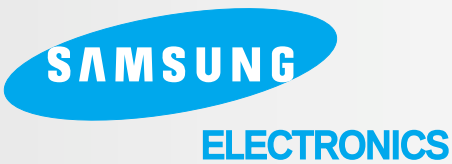
SAMSUNG strives to improve its products at all times.
Both the design specifications and these user instructions are thus subject to change without notice.

RADIO	
AM (MW)	
Signal/noise ratio	40 dB
Usable sensitivity	54 dB
Total harmonic distortion	2 %
FM	
Signal/noise ratio	60 dB
Usable sensitivity	10 dB
Total harmonic distortion	0.3 %
COMPACT DISC PLAYER	
Capacity	3 discs
Frequency range	20 Hz - 20 KHz (± 1 dB)
Signal/noise ratio	90 dB (at 1 KHz) with filter
Distortion	0.05 % (at 1 KHz)
Channel separation	74 dB
Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
TAPE DECK	
Frequency range	125 Hz ~ 12 KHz
Signal/noise ratio	40 dB
Channel separation	35 dB
Erasing effect	60 dB
AMPLIFIER	
Output power	
FRONT (6Ω)	2 x 100 Watts RMS (total harmonic distortion: 10 %)
CENTER (6Ω)	50 Watts RMS (total harmonic distortion: 10 %)
SURROUND (6Ω)	2 x 50 Watts RMS (total harmonic distortion: 10 %)
Channel separation	50 dB
Signal/noise ratio	75 dB
GENERAL	
Dimensions	270 (W) x 317 (H) x 340 (D) mm

SUBWOOFER (PS W100E)

TYPE	Active Subwoofer
Speaker Unit	Subwoofer 156mm, cone type
Output Power	100W (6 Ohms, 100Hz, 10%)
Input sensitivity (Subwoofer In)	400 mVrms
Dimensions	200(W) X 317(H) X 417(D)

THIS APPLIANCE IS MANUFACTURED BY:



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